

SUBJECT INDEX

J. CHROMATOGR. A VOLS. 702–750

A

Acholeplasma laidlawii

Chromatographic resolution of partially perdeuterated diglucosyldiacylglycerols from *Acholeplasma laidlawii* 736(1996)83

 α_1 -Acid glycoprotein column

Quantitative structure–retention relationships in the examination of the topography of the binding site of antihistamine drugs on α_1 -acid glycoprotein 722(1996)25

Acidity constant

Chiral separations of underivatized arylpropionic acids by capillary zone electrophoresis with various cyclodextrins. Acidity and inclusion constant determinations 735(1996)311

Acryloylaminoethoxyethanol coating

Oligonucleotide analysis by capillary polymer sieving electrophoresis using acryloylaminoethoxyethanol-coated capillaries 744(1996)347

Activated carbon

Monitoring of pesticides in air by gas chromatography–mass spectrometry and the use of quartz-fibre wool and activated carbon for sampling 710(1995)243

Activity coefficients

Model for ion-exchange equilibria of macromolecules in preparative chromatography 702(1995)113

Acyl migration reactions

High-performance liquid chromatography directly coupled to ^{19}F and ^1H NMR for the analysis of mixtures of isomeric ester glucuronide conjugates of trifluoromethylbenzoic acids 728(1996)377

Adsorbents

see also Affinity adsorbents and Sorbents

Adsorbents for the removal of humic acid from surface water based on modified porous zirconia and silica 711(1995)223

Uniform-sized polymer-based separation media prepared using vinyl methacrylate as a cross-linking agent. Possible powerful adsorbent for solid-phase extraction of halogenated organic solvents in an aqueous environment 711(1995)247

Determination of 1,2,6-inositol trisphosphate (derivatives) in plasma using iron(III)-loaded adsorbents and capillary zone electrophoresis–(indirect) UV detection 718(1995)413

Performance of pH elution in high-performance affinity chromatography of proteins using non-porous silica 721(1996)31

Langmuirian behaviour of smelly volatile organic compounds on air sampling with solid adsorbents 723(1996)293

Influence of temperature on the retention behaviour of proteins in cation-exchange chromatography 729(1996)49

Temperature-induced changes in the bandwidth behaviour of proteins separated with cation-exchange adsorbents 729(1996)67

Artifact-free preparation, storage and analysis of solid adsorbent sampling cartridges used in the analysis of volatile organic compounds in air 732(1996)414

Evaluation of two new examples of graphitized carbon blacks for use in solid-phase extraction cartridges 733(1996)41

Stability and purity of low-polarity adsorbents for coupled supercritical fluid extraction–supercritical fluid chromatography–flame ionization detection 734(1996)311

Effects of structural and kinetic parameters on the performance of chromatographic columns packed with perfusive and purely diffusive adsorbent particles 743(1996)3

Studies on the expansion characteristics of fluidised beds with silica-based adsorbents used in protein purification 743(1996)57

- Regulation of cellulose-based adsorbent granule morphology (Review) 746(1996)147
- Solid-phase extraction of polar pesticides from environmental water samples on graphitized carbon and Empore-activated carbon disks and on-line coupling to octadecyl-bonded silica analytical columns 750(1996)227
- Adsorption**
 "Perfusion chromatography". The effects of intra-particle convective velocity and microsphere size on column performance 702(1995)45
- Computer aided desk-top scale-up and optimisation of chromatographic processes 702(1995)81
- Model for ion-exchange equilibria of macromolecules in preparative chromatography 702(1995)113
- NMR imaging of the chromatographic process. Deposition and removal of gadolinium ions on a reversed-phase liquid chromatographic column 704(1995)37
- Adsorption of oxysterols on different microtube materials during silanylation prior to gas chromatographic determination 705(1995)396
- Computer program for simulating the performance of thick-bed diffusive samplers: predicted and experimental sample loss due to reversible adsorption 709(1995)283
- Perfusion chromatography: performance of periodic countercurrent column operation and its comparison with fixed-bed operation 711(1995)3
- Microcalorimetric characterization of the anion-exchange adsorption of recombinant cytochrome b_5 and its surface-charge mutants 715(1995)81
- Thermodynamic consideration of the retention mechanism in a poly(perfluoroalkyl ether) gas chromatographic stationary phase used in packed columns 715(1995)299
- Analyte adsorption in liquid chromatography valve injectors for samples in non-eluting solvents 726(1996)67
- Delayed adsorption on slowly accessible stationary phase surfaces in porous liquid chromatographic column packings 728(1996)97
- Multi-component perfusion chromatography in fixed bed and periodic counter current column operation 734(1996)105
- Rectangular capillary electrophoresis: study of some dispersive effects 737(1996)243
- Dispersion effects accompanying pressurized zone mobilisation in capillary isoelectric focusing of proteins 738(1996)123
- Effects of structural and kinetic parameters on the performance of chromatographic columns packed with perfusive and purely diffusive adsorbent particles 743(1996)3
- Confocal microscopy as a tool for studying protein adsorption to chromatographic matrices 743(1996)75
- Characterisation of inner surface and adsorption phenomena in fused-silica capillary electrophoresis capillaries 744(1996)93
- Adsorption, non-linear**
 Modeling non-linear elution of proteins in ion-exchange chromatography 702(1995)125
- Adsorption capacity**
 Studies on the adsorption capacities of proteins with a tentacle-type ion exchanger and their relationship to the stoichiometric retention parameter Z_c 711(1995)43
- Adsorption density distribution**
 Determination of adsorption characteristics of the nutrient orthophosphate to natural colloids by sedimentation field-flow fractionation 733(1996)105
- Adsorption equilibria**
 Determination of adsorption equilibrium constants by reversed-flow gas chromatography 736(1996)151
- Two-step chromatographic procedure for purification of basic fibroblast growth factor from recombinant *Escherichia coli* and characterization of the equilibrium parameters of adsorption 746(1996)17
- Adsorption isotherms**
 Surface modification of microporous polyamide membranes with hydroxyethyl cellulose and their application as affinity membranes 715(1995)49
- Continuous biospecific affinity purification of enzymes by simulated moving-bed chromatography. Theoretical description and experimental results 719(1996)267
- Multicomponent interferences in overloaded gradient elution chromatography 724(1996)27
- Reproducibility, accuracy, and correction of isotherm data measured by chromatography 724(1996)39
- Influence of the concentration dependence of the mass transfer properties on chromatographic band profiles 731(1996)1
- Amino acid separation by preparative temperature-swing chromatography with flow reversal 732(1996)1
- Application of different isotherm models to the description of single-component and competitive adsorption data 734(1996)83
- Mobile phase effects on single-component and competitive adsorption isotherms in reversed-phase systems 734(1996)125

Adsorption isotherms in protein chromatography. Combined influence of protein and salt concentration on adsorption isotherm 734(1996)183

Use of the equilibrium-dispersive model of nonlinear gas chromatography for the modelling of the elution band profiles in the preparative-scale gas chromatographic separation of enantiomers 734(1996)289

Peak tailing and mass transfer kinetics in linear chromatography 741(1996)1

Ion-pair adsorption chromatography for process purposes 741(1996)185

Peak tailing and slow mass transfer kinetics in nonlinear chromatography 742(1996)55

Aerosol analysis

Comparison of capillary zone electrophoresis with ion chromatography and standard photometric methods for the determination of inorganic anions in atmospheric aerosols 706(1995)469

Application of capillary electrophoresis in atmospheric aerosol analysis: determination of cations 706(1995)527

Pentafluorobenzyl derivatives for the gas chromatographic determination of hydroxy-polycyclic aromatic hydrocarbons in urban aerosols 710(1995)139

Determination of hydroxy-substituted polycyclic aromatic hydrocarbons by high-performance liquid chromatography with electrochemical detection 715(1995)41

Affinity adsorbents

Separation of biotin labeled proteins from their unlabeled counterparts using immobilized platinum affinity chromatography 702(1995)173

Novel magnetic microspheres on the basis of poly(vinyl alcohol) as affinity medium for quantitative detection of glycosylated haemoglobin 711(1995)53

Removal of endotoxins by affinity sorbents 711(1995)81

Interaction mechanisms between insulin and N-acetylneuraminic acid in affinity chromatography 711(1995)93

Purification of recombinant human basic fibroblast growth factor: stability of selective sorbents under cleaning in place conditions 711(1995)129

Biomimetic dye affinity chromatography for the purification of bovine heart lactate dehydrogenase 718(1995)35

Continuous biospecific affinity purification of enzymes by simulated moving-bed chromatography. Theoretical description and experimental results 719(1996)267

Performance of pH elution in high-performance affinity chromatography of proteins using non-porous silica 721(1996)31

Lectin-glycoenzyme column chromatography monitored by enzyme flow microcalorimetry 722(1996)143

Salt-induced immobilizations of DNA oligonucleotides on an epoxide-activated high-performance liquid chromatographic affinity support 726(1996)77

Synthesis of silica-based heparin-affinity adsorbents 728(1996)149

Hybrid selection with cDNA-silica 742(1996)87

Affinity chromatography of trypsin using chitosan as ligand support 742(1996)107

Characterisation of silica-based heparin-affinity adsorbents through column chromatography of plasma fractions containing thrombin 743(1996)145

Affinity electrophoresis

Demonstration of a heparin-binding site in serum amyloid P component using affinity capillary electrophoresis as an adjunct technique 717(1995)83

Multiple-plug binding assays using affinity capillary electrophoresis 727(1996)291

Critical evaluation of the applicability of capillary zone electrophoresis for the study of haptin-antibody complex formation 744(1996)195

Investigation of chiral resolution using displacement interactions with polymer networks in capillary affinity zone electrophoresis 745(1996)1

Affinity fluidized beds

Computer aided desk-top scale-up and optimisation of chromatographic processes 702(1995)81

Affinity membranes

Surface modification of microporous polyamide membranes with hydroxyethyl cellulose and their application as affinity membranes 715(1995)49

Affinity sensors

Detection of neu differentiation factor with a biospecific affinity sensor during chromatography 705(1995)163

Agarose, superporous

Superporous agarose, a new material for chromatography 734(1996)231

Agarose-based anion exchangers

Influence of flow-rate on the chromatographic performance of agarose- and cellulose-based anion-exchange media 734(1996)137

Aggregation constants

Application of capillary electrophoresis for characterizing interactions between drugs and bile salts. Part I 745(1996)135

Air analysis

see also Special issue index

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Application of chromatographic studies of air pollution in China 710(1995)21

Detection methods for the analysis of biogenic non-methane hydrocarbons in air 710(1995)39

On-site monitoring of volatile organic compounds as hazardous air pollutants by gas chromatography 710(1995)51

Automated gas chromatographic analysis of volatile organic compounds in air 710(1995)61

Chromatographic determination of benz[*c*]acridines and related compounds in airborne carcinogens 710(1995)117

Pentafluorobenzyl derivatives for the gas chromatographic determination of hydroxy-polycyclic aromatic hydrocarbons in urban aerosols 710(1995)139

Separation of ³²P-labeled 3',5'-bisphosphate nucleotides of polycyclic aromatic hydrocarbon *anti*-diol-epoxides and derivatives 710(1995)149

Derivatization and chromatographic determination of aldehydes in gaseous and air samples 710(1995)159

Monitoring of pesticides in air by gas chromatography–mass spectrometry and the use of quartz-fibre wool and activated carbon for sampling 710(1995)243

Determination of hydroxy-substituted polycyclic aromatic hydrocarbons by high-performance liquid chromatography with electrochemical detection 715(1995)41

Gas chromatography of 4,4'-diphenylmethane diisocyanate in the workplace atmosphere 718(1995)141

Determination of benzene and alkylated benzenes in ambient and exhaled air by microwave desorption coupled with gas chromatography–mass spectrometry 719(1996)383

Langmuirian behaviour of smelly volatile organic compounds on air sampling with solid adsorbents 723(1996)293

Characteristics of microtrap-based injection systems for continuous monitoring of volatile organic compounds by gas chromatography 727(1996)111

Quantification of toxic hydrocarbon target compounds in engine exhaust and air by aluminum oxide porous-layer open-tubular capillary gas chromatography–mass spectrometry using isotopically labeled internal standards 731(1996)217

Artifact-free preparation, storage and analysis of solid adsorbent sampling cartridges used in the analysis of volatile organic compounds in air 732(1996)414

Application of radio-chromatographic techniques to diesel emissions research 737(1996)181

Determination of heavy metals in air particulate matter by ion chromatography 739(1996)233

Determination of atmospheric sulfur dioxide by ion chromatography in the city of Cabimas, Venezuela 739(1996)295

New gas chromatographic–electron-capture detection method for the determination of atmospheric aldehydes and ketones based on cartridge sampling and derivatization with 2,4,6-trichlorophenylhydrazine 740(1996)71

Screening method for the determination of 28 volatile organic compounds in indoor and outdoor air at environmental concentrations using dual-column capillary gas chromatography with tandem electron-capture–flame ionization detection 749(1996)181

A new fast method for field screening of polychlorinated biphenyls in air 750(1996)151

Airborne dust

Determination of aflatoxins in airborne dust from feed factories by automated immunoaffinity column clean-up and liquid chromatography 708(1995)55

Airborne particulates

Recent applications of gas and high-performance liquid chromatographic techniques to the analysis of polycyclic aromatic hydrocarbons in airborne particulates 710(1995)79

Air sampling

Laboratory validation of a diffusive sampler for the determination of glutaraldehyde in air 710(1995)175

Alcoholic modifier

Influence of the kind of the alcoholic modifier on chiral separation on a Chiralpak AD column 728(1996)249

Alkali flame ionization detection

Design and optimization of a novel type nitrogen–phosphorus detector for capillary gas chromatography 732(1996)51

Alkylates

Determination of elemental sulfur by size-exclusion chromatography 740(1996)237

Alkylation

Pyrolytic alkylation–gas chromatography–mass spectrometry of model polymers 750(1996)155

Alkylglucopyranosides

Utilization of *n*-alkyl- β -D-glucopyranosides in enantiomeric separation by micellar electrokinetic chromatography 749(1996)257

Allium

What is the true odour of cut *Allium*? Complementarity of various hyphenated methods: gas chromatography–mass spectrometry and high-performance liquid chromatography–mass spectrometry with particle beam and atmospheric pressure ionization interfaces in sulphenic acids rearrangement components discrimination 750(1996)63

Aloe

High-performance liquid chromatographic profiles of aloe constituents and determination of aloin in beverages, with reference to the EEC regulation for flavouring substances 718(1995)99

High-performance liquid chromatographic determination of phenolic compounds in *Aloe* species 746(1996)225

5-Aminolaevulinic acid dehydratase activity

Determination of 5-aminolaevulinic acid dehydratase activity in erythrocytes and porphobilinogen in urine by micellar electrokinetic capillary chromatography 722(1996)353

Amberlite XAD

Ion-pair adsorption chromatography for process purposes 741(1996)185

Amino-silica glass coating

Hydrolytically stable amino-silica glass coating material for manipulation of the electroosmotic flow in capillary electrophoresis 744(1996)17

Amniotic fluid

Perfusion immunoassay for acetylcholinesterase: analyte detection based on intrinsic activity 711(1995)23

Amperometric detection

Galvanic decoupling of a postcolumn amperometric detector in capillary electrophoresis 709(1995)69

Improved end-column amperometric detection for capillary electrophoresis 742(1996)229

Ampholyte trapping

Continuous micropreparative trapping in carrier ampholyte-free isoelectric focusing 709(1995)39

Ampholytes

Comparison of ampholytes used for slab gel and capillary isoelectric focusing of recombinant tissue-type plasminogen activator glycoforms 744(1996)279

Analyte loss

Diffusive analyte loss in capillary electrophoresis caused by delay in field application 732(1996)335

Analyte noise

Analyte noise in the flame photometric detector 724(1996)251

Angelicae Tuhou Radix

Separation of coumarins by micellar electrokinetic capillary chromatography 710(1995)323

Anion exchangers

see also Ion exchangers

Modified silica as a stationary phase for ion chromatography 706(1995)93

Separation of anionic surfactants on anion exchangers 706(1995)327

Influence of flow-rate on the chromatographic performance of agarose- and cellulose-based anion-exchange media 734(1996)137

Antibody/antigen-based detectors

Biospecific detection in liquid chromatography 703(1995)191

Aphaenogaster swammerdami

Identification of the lipids and the ant attractant 1,2-dioleoylglycerol in the arils of *Commiphora guillaumini* Perr. (Burseraceae) by supercritical fluid chromatography–atmospheric pressure chemical ionisation mass spectrometry 727(1996)139

Apparent formation constants

Determination of stoichiometric coefficients and apparent formation constants for α - and β -CD complexes of terpenes using reversed-phase liquid chromatography 736(1996)1

Apple juice

Rapid reversed-phase liquid chromatographic determination of patulin in apple juice 730(1996)53

Determination of alternariol and alternariol methyl ether in apple juice using solid-phase extraction and high-performance liquid chromatography 731(1996)109

Apple products

Solid-phase extraction and high-performance liquid chromatographic determination of polyphenols in apple musts and ciders 727(1996)203

Apples

High-performance liquid chromatographic quantitation of phloridzin in apple seed, leaf and callus 719(1996)444

Determination of daminozide residues in apples using gas chromatography with nitrogen–phosphorus detection 723(1996)355

Decay study of pesticide residues in apple samples 740(1996)146

Aqueous eluents

Ion-exclusion chromatography with conductimetric detection of aliphatic carboxylic acids on an H⁺-form cation-exchange resin column by elution with polyols and sugars 706(1995)385

Aqueous two-phase systems

Effects of salts and the surface hydrophobicity of proteins on partitioning in aqueous two-phase systems containing thermoseparating ethylene oxide–propylene oxide copolymers 718(1995)67

Mathematical modelling and computer simulation of aqueous two-phase continuous protein extraction 741(1996)151

Armillaria

Liquid chromatographic–thermospray mass spectrometric analysis of sesquiterpenes of *Armillaria* (Eumycota: Basidiomycotina) species 710(1995)273

Aroma compounds

Study of aroma compound–natural polymer interactions by dynamic coupled column liquid chromatography 707(1995)181

Aroma extracts

Prefractionation of aroma extracts from fat-containing food by high-performance size-exclusion chromatography 729(1996)371

Art analysis

Gas chromatographic–mass spectrometric approach to the problem of characterizing binding media in paintings 731(1996)237

***Artemisia umbelliformis* Lam**

High-performance liquid chromatographic–particle beam mass spectrometric analysis of sesquiterpene lactones with different carbon skeletons 727(1996)211

Artifacts

Experiences with HPLC-grade solvents 715(1995)199

Artificial neural networks

Assessment of chromatographic peak purity by means of artificial neural networks 734(1996)259

Artificial sweeteners

High-performance liquid chromatography with electrochemical detection of aspartame with a post-column photochemical reactor 729(1996)393

Aspergillus versicolor

Micellar electrokinetic capillary chromatography of fungal metabolites. Resolution optimized by experimental design 721(1996)337

Association constants

Examination of the origin, variation, and proper use of expressions for the estimation of association constants by capillary electrophoresis 721(1996)173

Role of binding capacity versus binding strength in the separation of chiral compounds on protein-based high-performance liquid chromatography columns 725(1996)273

Determination of solute–micelle association constants for a group of benzene derivatives and polycyclic aromatic hydrocarbons with sodium dodecyl sulphate by micellar electrokinetic chromatography 732(1996)345

Critical evaluation of the applicability of capillary zone electrophoresis for the study of hapten–antibody complex formation 744(1996)195

Atmospheric pressure chemical ionization source

Application of liquid chromatography–atmospheric pressure chemical ionization mass spectrometry to a sector mass spectrometer 712(1995)17

Atmospheric pressure ionization

Liquid chromatography–mass spectrometry. General principles and instrumentation 703(1995)37

Recent developments in supercritical fluid chromatography–mass spectrometry coupling 703(1995)479

Application of a new atmospheric pressure ionization source for double focusing sector instruments 712(1995)3

Atmospheric samples, planetary

Characterization of micropacked alkyl-bonded silica columns for gas chromatographic analyses of light hydrocarbons in planetary atmospheres 709(1995)291

Atomic absorption spectrometry

Element-specific chromatographic detection by atomic absorption, plasma atomic emission and plasma mass spectrometry 703(1995)393

Atomic emission detection

Chromium speciation by anion-exchange high-performance liquid chromatography with both inductively coupled plasma atomic emission spectroscopic and inductively coupled plasma mass spectrometric detection 712(1995)311

Capillary gas chromatography combined with atomic emission detection for the analysis of polychlorinated biphenyls 723(1996)337

Calculation of elemental ratios by on-column radiofrequency plasma atomic emission detection coupled with capillary gas chromatography 736(1996)157

Pesticide residue analysis in foodstuffs applying capillary gas chromatography with atomic emission detection. State-of-the-art use of modified multimethod S19 of the Deutsche Forschungsgemeinschaft and automated large-volume injection with programmed-temperature vaporization and solvent venting 750(1996)369

Atropisomer separation

Factorial design approach to studying the high-performance liquid chromatographic chiral separation of N-arylthiazolin-2-(thi)one atropisomers on CHIRALCEL OJ 722(1996)177

Enantioselective separation of polychlorinated biphenyl atropisomers using chiral high-performance liquid chromatography 724(1996)219

Autocatalytic on-column reactions

Autocatalytic reactions in a liquid chromatographic reactor 728(1996)401

Automatic sampler vials

Permeation tube approach to long-term use of automatic sampler retention index standards 704(1995)157

Automation

Automated determination of s-triazine herbicides using solid-phase microextraction 705(1995)305

Automated gas chromatographic analysis of volatile organic compounds in air 710(1995)61

Perfusion immunoassay for acetylcholinesterase: analyte detection based on intrinsic activity 711(1995)23

Automated sample preparation for cholesterol determination in foods 718(1995)371

Automated solid-phase extraction coupled to gas chromatography with electron-capture detection: a combination of extraction and clean-up of pyrethroids in the analysis of surface water 719(1996)59

Analysis of microcontaminants in aqueous samples by fully automated on-line solid-phase extraction-gas chromatography-mass selective detection 725(1996)67

Automated determination of polyamines by high-performance liquid chromatography with simple sample preparation 730(1996)115

Automated instrumentation for miniaturized displacement electrophoresis with on-column photometric detection 730(1996)261

Integrated system for on-line gas and liquid chromatography with a single mass spectrometric detector for the automated analysis of environmental samples 730(1996)353

Automated at-line solid-phase extraction-gas chromatographic analysis of micropollutants in water using the PrepStation 750(1996)161

Automated on-line solid-phase extraction-high-performance liquid chromatography-diode array detection of phenolic compounds in sherry wine 750(1996)209

Automated on-line gel permeation chromatography-gas chromatography for the determination of organophosphorus pesticides in olive oil 750(1996)275

Automated determination of verapamil and norverapamil in human plasma with on-line coupling of dialysis to high-performance liquid chromatography and fluorometric detection 750(1996)351

On-line high-performance liquid chromatography-solvent evaporation-high-performance liquid chromatography-capillary gas chromatography-flame ionisation detection for the analysis of mineral oil polyaromatic hydrocarbons in fatty foods 750(1996)361

Axial compression

Study of the packing behavior of axial compression columns for preparative chromatography 702(1995)27

Study of the operating conditions of axial compression columns for preparative chromatography 709(1995)227

Consolidation of the packing material in chromatographic columns under dynamic axial compression. II. Consolidation and breakage of several packing materials 719(1996)275

Size-exclusion chromatography on soft packing material under axial compression 732(1996)17

Consolidation of the packing material in chromatographic columns under dynamic axial compression. III. Effect of the nature of the packing solvent on the consolidation and performance of axial compression columns 741(1996)165

Consolidation of the packing material in chromatographic columns under dynamic axial compression IV. Mechanical properties of some packing materials 741(1996)175

Axial dispersion

Steady-state concentration boundary profile for the injection of a single-component feed in counter-current chromatography 728(1996)25

Axial dispersion coefficient

Influence of the concentration dependence of the mass transfer properties on the chromatographic band profiles 728(1996)15

Axial dispersion coefficient, apparent

Influence of the concentration dependence of the mass transfer properties on chromatographic band profiles 731(1996)1

Axial flow columns

Ligand efficiency in axial and radial flow immunoaffinity chromatography of factor IX 702(1995)191

Axios River basin

Development of a semi-automated high-performance liquid chromatographic–diode array detection system for screening pesticides at trace levels in aquatic systems of the Axios River basin 726(1996)99

Azobenzenes

Comparison of two azobenzene liquid crystal stationary phases in open tubular column gas chromatography 746(1996)247

B***Bacillus cereus***

Unusual chromatographic behaviour and one-step purification of a novel membrane proteinase from *Bacillus cereus* 715(1995)247

Bacillus circulans

High performance liquid chromatography of *Bacillus circulans* peptidoglutaminase for laboratory and industrial uses 702(1995)163

Baccharis trinervis

Analysis of 5-hydroxy-7-methoxyflavones by normal-phase high-performance liquid chromatography 740(1996)201

Background electrolyte composition

see also Buffer composition

Polyethylene glycol monomethyl ether sulfate-based background electrolytes in capillary electrophoresis 744(1996)75

Separation of organic acids by capillary zone electrophoresis in buffers containing divalent metal cations 745(1996)93

Background electrophoresis

Calculation of the composition of sample zones in capillary zone electrophoresis 741(1996)265

Background-treatment algorithm

Comparison of softwares used for the detection of analytes present at low levels in liquid chromatographic–mass spectrometric experiments 712(1995)31

Bacteria

Low-molecular-mass RNA fingerprinting of bacteria by capillary electrophoresis using entangled polymer solutions 717(1995)91

Use of capillary zone electrophoresis in an investigation of peptide uptake by dairy starter bacteria 718(1995)211

Rapid identification of biogenic amine-producing bacterial cultures using isocratic high-performance liquid chromatography 719(1996)321

Balaban indices

Using topological indices in the prediction of gas chromatographic retention indices of linear alkylbenzene isomers 719(1996)462

Band broadening

see also Band profiles and Peak shape

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. I. Methodology and validation of the model 726(1996)1

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. II. Slow sorption rate on a microparticle packing 726(1996)25

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. III. Diffusion in the polymer matrix as the cause of slow sorption 726(1996)37

Temperature-induced changes in the bandwidth behaviour of proteins separated with cation-exchange adsorbents 729(1996)67

Size-exclusion chromatography on soft packing material under axial compression 732(1996)17

Dynamic modeling of electrophoretically mediated microanalysis 732(1996)119

Band profiles

see also Band broadening and Peak shape

Multicomponent interferences in overloaded gradient elution chromatography 724(1996)27

Influence of the concentration dependence of the mass transfer properties on the chromatographic band profiles 728(1996)15

Influence of the concentration dependence of the mass transfer properties on chromatographic band profiles 731(1996)1

Profiles of large-size system peaks and vacancy bands in liquid chromatography 734(1996)63

Profiles of large-size system peaks and vacancy bands in liquid chromatography. II. Comparison of experimental and calculated profiles 734(1996)75

Modeling of radial heterogeneity in chromatographic columns 734(1996)97

Use of the equilibrium-dispersive model of nonlinear gas chromatography for the modelling of the elution band profiles in the preparative-scale gas chromatographic separation of enantiomers 734(1996)289

Peak tailing and mass transfer kinetics in linear chromatography 741(1996)1

Effect of the packing pressure on the performance of C_{18} reversed-phase liquid chromatographic columns 743(1996)247

Barley

Determination of β -(1-3),(1-4)-D-glucans in barley by reversed-phase high-performance liquid chromatography 718(1995)291

Baseline irregularities

Apparent baseline irregularities for neutral markers in capillary zone electrophoresis with electroosmotic flow 734(1996)351

Baseline noise

Improved baselines in gradient elution 718(1995)429

Bayer liquor

Separation of inorganic and organic anionic components of Bayer liquor by capillary zone electrophoresis. I. Optimisation of resolution with electrolyte-containing surfactant mixtures 706(1995)571

Beaches

Use of capillary gas chromatography for measuring fecal-derived sterols. Application to stormwater, the sea-surface microlayer, beach greases, regional studies, and distinguishing algal blooms and human and non-human sources of sewage pollution 733(1996)497

Beer

Determination of N-nitrosodimethylamine in beer by gas chromatography-stable isotope dilution chemical ionization mass spectrometry 708(1995)303

Determination of mono-, poly- and hydroxy-carboxylic acid profiles of beverages as their 2-nitrophenylhydrazides by reversed-phase ion-pair chromatography 721(1996)261

Preparative regime for the purification of bitter acids derived from hops (*Humulus lupulus* L.) 731(1996)327

Beeswax

Rapid detection of high-molecular-mass dienes in beeswax 704(1995)224

Benzylation

Direct on-column derivatisation in gas chromatography 738(1996)57

Beta vulgaris

Application of capillary zone electrophoresis to the analysis of betalains from *Beta vulgaris* 735(1996)409

Betel

Headspace sampling and gas chromatographic-mass spectrometric determination of amphetamine and methamphetamine in betel 715(1995)325

Betula pendula

High-performance liquid chromatographic separation and identification of phenolic compounds from leaves of *Betula pubescens* and *Betula pendula* 721(1996)59

Betula pubescens

High-performance liquid chromatographic separation and identification of phenolic compounds from leaves of *Betula pubescens* and *Betula pendula* 721(1996)59

Beverages

see also Beer and Wine

On-line dialysis with high-performance liquid chromatography for the automated preparation and analysis of sugars and organic acids in foods and beverages 705(1995)195

Capillary electrophoretic separation of phenolic acids 709(1995)209

Determination of mono-, poly- and hydroxy-carboxylic acid profiles of beverages as their 2-nitrophenylhydrazides by reversed-phase ion-pair chromatography 721(1996)261

High-sensitivity fluorescence derivatization for the determination of hydroxy compounds in aqueous solution by high-performance liquid chromatography 728(1996)333

High-performance liquid chromatographic determination of the biologically active principle hypericin in phytotherapeutic vegetable extracts and alcoholic beverages 731(1996)336

Micellar electrokinetic chromatography as a screening method for the analysis of vanilla flavourings and vanilla extracts 736(1996)321

Bidirectional isotachopheresis

Bidirectional isotachopheretic separation of metal cations using EDTA as a chelating agent 709(1995)171

Binding capacity

Role of binding capacity versus binding strength in the separation of chiral compounds on protein-based high-performance liquid chromatography columns 725(1996)273

Binding constants

Examination of the origin, variation, and proper use of expressions for the estimation of association constants by capillary electrophoresis 721(1996)173

Multiple-plug binding assays using affinity capillary electrophoresis 727(1996)291

Determination of the binding constant of salbutamol to unmodified and ethylated cyclodextrins by affinity capillary electrophoresis 735(1996)321

Systematic approach to the treatment of enantiomeric separations in capillary electrophoresis and liquid chromatography. III. A binding constant-retention factor relationship and effects of acetonitrile on the chiral separation of tioconazole 745(1996)25

Determination of binding constants and the influence of methanol on the separation of drug enantiomers in cyclodextrin modified capillary electrophoresis 745(1996)181

Binding forces

Binding forces contributing to reversed-phase liquid chromatographic retention on a β -cyclodextrin bonded phase 722(1996)41

Binding media

Gas chromatographic-mass spectrometric approach to the problem of characterizing binding media in paintings 731(1996)237

Binding strength

Role of binding capacity versus binding strength in the separation of chiral compounds on protein-based high-performance liquid chromatography columns 725(1996)273

Biomass

Assessment by gas chromatography and gas chromatography-mass spectrometry of volatile hydrocarbons from biomass burning 710(1995)71

Biomimetic adsorbents

Biomimetic dye affinity chromatography for the purification of bovine heart lactate dehydrogenase 718(1995)35

Bioprocess sampling

Membrane characterisation and performance of microdialysis probes intended for use as bioprocess sampling units 725(1996)41

Biosensors

Determining the characteristics of water pollutants by neural sensors and pattern recognition methods (Review) 722(1996)233

Biosensors in bioprocess monitoring (Review) 725(1996)3

Study of a new solid carbon paste tyrosinase-modified amperometric biosensor for the determination of catecholamines by high-performance liquid chromatography 727(1996)47

Biospecific detection

Biospecific detection in liquid chromatography 703(1995)191

Biotechnological processes

Sampling and analytical strategies in on-line bioprocess monitoring and control (Review) 725(1996)13

Boiling point

Plots of relative retention against solute boiling point indicate extra solute interactions with a liquid crystal polysiloxane stationary phase 743(1996)341

Book Reviews

Carbohydrate analysis-high-performance chromatography and capillary electrophoresis (edited by Z. El Rassi) 704(1995)544

Applied pyrolysis handbook (edited by T.P. Wampler) 709(1995)393

Chromatography in the petroleum industry (edited by E.R. Adlard) 709(1995)395

Advances in chromatography, Vol. 35 (edited by P. Brown and E. Grushka) 709(1995)397

Techniques and practice of chromatography (edited by R.P.W. Scott) 715(1995)385

Ion chromatography (edited by J. Weiss) 715(1995)387

A practical approach to chiral separations by liquid chromatography (edited by G. Subramanian) 718(1996)459

Gas chromatography (by I.A. Fowles) 719(1996)483

Ion exchange and solvent extraction, Vol. 12 (edited by J.A. Marinsky and Y. Marcus) 719(1996)484

Gas chromatography (edited by D. Baker) 727(1996)334

Mathematical modeling and scale-up of liquid chromatography (by T. Gu) 734(1996)423

Modern practice of gas chromatography (edited by R.L. Grob) 738(1996)311

Characterization and chemical modification of the silica surface (by E.F. Vansant, P. Van Der Voort and K.C. Vrancken) 738(1996)313

Retention and selectivity in liquid chromatography (edited by R.M. Smith) 738(1996)314

Advances in Chromatography, Vol. 34 (edited by P.R. Brown and E. Grushka) 738(1996)317

Principles and practice of modern chromatographic methods (by K. Robards, P.R. Haddad and P.E. Jackson) 738(1996)319

Capillary electrophoresis guidebook, principles, operation and applications (edited by K.D. Altria) 738(1996)321

Hyphenated techniques in polymer characterization: Thermal, spectroscopic and other techniques (by T. Provder, M.W. Urban and H.G. Barth) 741(1996)149

Aqueous biphasic separations biomolecules to metal ions, (edited by R.D. Rogers and M.A. Eiteman) 742(1996)299

High performance liquid chromatography: Principles and methods in biotechnology (edited by E.D. Katz) 746(1996)301

Bioconjugate techniques (by G.T. Hermanson) 746(1996)303

Inductively coupled and microwave induced plasma sources for mass spectrometry (by E.H. Evans, J.J. Giglio, T.M. Castellano and J.A. Caruso) 746(1996)304

Enantioselective reactions in organic chemistry (by O. Cervinka) 746(1996)304

Borage oil

Stereospecific analysis of the major triacylglycerol species containing γ -linolenic acid in Evening Primrose oil and borage oil 704(1995)99

Botanical materials

Method development and validation for the determination of mineral elements in food and botanical materials by capillary electrophoresis 717(1995)415

Bragg reflecting waveguides

Integrated optical detection cell based on Bragg reflecting waveguides 716(1995)135

Breakage, packings

Consolidation of the packing material in chromatographic columns under dynamic axial compression. II. Consolidation and breakage of several packing materials 719(1996)275

Breakthrough curves

Influence of the concentration dependence of the mass transfer properties on the chromatographic band profiles 728(1996)15

Characterization of protein adsorption by composite silica-polyacrylamide gel anion exchangers 746(1996)185

Breakthrough times

Assessing breakthrough times for denuder samplers with emphasis on volatile organic compounds 723(1996)301

Brine

Detection of iodide in geologic materials by high-performance liquid chromatography 706(1995)215

Buffer composition

see also Background electrolyte composition

Systematic study of field and concentration effects in capillary electrophoresis of DNA in polymer solutions 710(1995)309

Combined polymerized chiral micelle and γ -cyclodextrin for chiral separation in capillary electrophoresis 711(1995)297

Comparison of separation selectivity in aqueous and non-aqueous capillary electrophoresis 711(1995)313

Synthesis and use of novel chiral surfactants in micellar electrokinetic capillary chromatography 712(1995)365

Separation of formoterol enantiomers and detection of zeptomolar amounts by capillary electrophoresis using laser-induced fluorescence 715(1995)159

Improvement in the determination of food additive dyestuffs by capillary electrophoresis using β -cyclodextrin 715(1995)179

Enantiomeric resolution using the macrocyclic antibiotics rifamycin B and rifamycin SV as chiral selectors for capillary electrophoresis 715(1995)337

Investigation and optimisation of the use of organic modifiers in micellar electrokinetic chromatography 716(1995)49

Optimization of resolution in micellar electrokinetic chromatography via computer-aided simultaneous variation of concentrations of sodium dodecyl sulfate and urea as modifier 716(1995)81

Control of the electroosmotic flow by metal-salt-containing buffers 716(1995)97

Buffer effects in the desionoselective/ionoselective/duoselective separation selectivity model-assisted optimization of the capillary electrophoretic separation of enantiomers. I. Low-pH phosphate buffers 716(1995)197

Capillary zone electrophoresis in organic solvents: separation of anions in methanolic buffer solutions 716(1995)303

Optical resolution of amino acid derivatives by micellar electrokinetic chromatography with sodium N-tetradecanoyl-L-glutamate 716(1995)319

Capillary electrophoretic determination of amino acids Improvement by cyclodextrin additives 716(1995)335

Low-molecular-mass RNA fingerprinting of bacteria by capillary electrophoresis using entangled polymer solutions 717(1995)91

Linear polymers applied as pseudo-phases in capillary zone electrophoresis of azo compounds used as textile dyes 717(1995)157

Ion-pair chromatography and micellar electrokinetic capillary chromatography in analyzing beta-adrenergic blocking agents from human biological fluids 717(1995)211

Enantioseparation of mianserine analogues using capillary electrophoresis with neutral and charged cyclodextrin buffer modifiers. ^{13}C NMR study of the chiral recognition mechanism 717(1995)245

Application of β -cyclodextrin for the analysis of the main alkaloids from *Chelidonium majus* by capillary electrophoresis 717(1995)271

Separation of transition metal cations by capillary electrophoresis. Optimization of complexing agent concentrations (lactic acid and 18-crown-6) 717(1995)393

Separation of diastereomers by capillary zone electrophoresis in free solution with polymer additive and organic solvent component. Effect of pH and solvent composition 719(1996)411

- Migration behaviour and selectivity of dichlorophenols in micellar electrokinetic capillary chromatography. Influence of micelle concentration and buffer pH 722(1996)333
- Separation of polyphosphates and polycarboxylates by capillary electrophoresis in a carrier electrolyte containing adenosine 5'-triphosphate and cetyltrimethylammonium bromide with indirect UV detection 723(1996)197
- Improved peptide mapping using phytic acid as ion-pairing buffer additive in capillary electrophoresis 726(1996)223
- Effect of buffers on silica-based column stability in reversed-phase high-performance liquid chromatography 728(1996)259
- Effect of the degree of substitution of cyclodextrin derivatives on chiral separations by high-performance liquid chromatography and capillary electrophoresis 728(1996)423
- Maximization of separation efficiency in capillary electrophoretic chiral separations by means of mobility-matching background electrolytes 730(1996)273
- Comparison of different electroosmotic flow modifiers in the analysis of inorganic anions by capillary electrophoresis 732(1996)167
- Migration behavior of dichlorophenols for replicate separations without replenishment of buffer electrolyte in micellar electrokinetic capillary chromatography 732(1996)361
- Separation of metallothionein isoforms with capillary zone electrophoresis using an uncoated capillary column. Effects of pH, temperature, voltage, buffer concentration and buffer composition 734(1996)391
- Enantiomer separation of drugs by electrokinetic chromatography 735(1996)57
- Optimized micellar electrokinetic chromatographic separation of benzodiazepines 735(1996)249
- Effect of 2,2,2-trifluoroethanol on capillary zone electrophoretic peptide separations 735(1996)271
- Chiral analysis of basic drugs by oligosaccharide-mediated capillary electrophoresis 735(1996)283
- Enantiomeric separation of amphetamine and phenylephrine by cyclodextrin-mediated capillary zone electrophoresis 735(1996)295
- Validation of enantiomeric separations by micellar electrokinetic capillary chromatography using synthetic chiral surfactants 735(1996)303
- Chiral separations of underivatized arylpropionic acids by capillary zone electrophoresis with various cyclodextrins. Acidity and inclusion constant determinations 735(1996)311
- Separation of enantiomers of drugs by capillary electrophoresis 735(1996)333
- Capillary electrophoresis of heparin and dermatan sulfate unsaturated disaccharides with triethylamine and acetonitrile as electrolyte additives 735(1996)367
- Hydrogen-bonding interaction-assisted micellar electrokinetic chromatography using mixed surfactant systems 736(1996)273
- Chiral separation of dansyl-amino acids in a nonaqueous medium by capillary electrophoresis 737(1996)263
- Analysis of disparate levels of anions of relevance to corrosion processes 739(1996)191
- Optimization of the separation of polycarboxylic acids by capillary zone electrophoresis 739(1996)389
- Chiral separation of muscarinic antagonists by capillary zone electrophoresis with cyclodextrin additives 741(1996)287
- Change of pH in electrophoretic zones as a cause of peak deformation 742(1996)211
- Correlation between the logarithm of capacity factors for aromatic compounds in micellar electrokinetic chromatography and their octanol-water partition coefficients 742(1996)251
- Capillary electrophoresis of oligonucleotides using a replaceable sieving buffer with low viscosity-grade hydroxyethyl cellulose 742(1996)267
- Determination of critical micelle concentration by capillary electrophoresis 743(1996)307
- Capillary zone electrophoresis/electrospray mass spectrometry of priority phenols 743(1996)315
- Capillary electrochromatography – a high-efficiency micro-separation technique 744(1996)63
- Electrolytic modification of a buffer during a capillary electrophoresis run 744(1996)81
- Effect of alkyl chain length of sodium N-acyl sarcosinates on migration behavior in micellar electrokinetic chromatography 744(1996)135
- Buffer capacity, ionic strength and heat dissipation in capillary electrophoresis 744(1996)147
- Complete capillary electrophoretic separation of substance P and its metabolites at neutral pH using ionic run buffer additives 744(1996)241
- Capillary gel electrophoretic separation of DNA restriction fragments in a discontinuous buffer system 744(1996)321
- Change in conductivity in non-cross-linked polyacrylamide capillary electrophoresis 744(1996)333

Investigation of chiral resolution using displacement interactions with polymer networks in capillary affinity zone electrophoresis 745(1996)1

Separation of positional and structural isomers by cyclodextrin-mediated capillary zone electrophoresis 745(1996)9

Use of cyclodextrins in the capillary electrophoretic separation of *erythro*- and *threo*-mefloquine enantiomers 745(1996)17

Systematic approach to the treatment of enantiomeric separations in capillary electrophoresis and liquid chromatography. III. A binding constant-retention factor relationship and effects of acetonitrile on the chiral separation of tioconazole 745(1996)25

Development and validation of a combined potency assay and enantiomeric purity method for a chiral pharmaceutical compound using capillary electrophoresis 745(1996)45

Separation of D/L-carnitine enantiomers by capillary electrophoresis 745(1996)53

Influence of the nature of the buffer on chiral separation in capillary electrophoresis 745(1996)61

Analysis of low-level anions in water extracts of hard disk drive heads by capillary electrophoresis 745(1996)81

Controlled changes in selectivity of cation separations by capillary electrophoresis using various crown-ether additives 745(1996)87

Capillary electrophoretic estimation of sulfate stability constants of metal ions and determination of alkali and alkaline earth metals in waters 745(1996)127

Determination of binding constants and the influence of methanol on the separation of drug enantiomers in cyclodextrin modified capillary electrophoresis 745(1996)181

Peak splitting observed during capillary electrophoresis of α - and β -naphthols in borate buffer 745(1996)225

Optimized separation of pharmacologically active flavonoids from *Epimedium* species by capillary electrophoresis 746(1996)123

Separation of structural homologues of alkylphenols and isomers of 4-nonylphenol by cyclodextrin-modified micellar electrokinetic chromatography 749(1996)227

Cyclodextrins as buffer additives for the enantiomeric separation of pinacidil in capillary zone electrophoresis 749(1996)300

Self-consistent framework for standardising mobilities in free solution capillary electrophoresis: applications to oligoglycines and oligoalanines 741(1996)99

C

Calibration functions

Precision and linearity of inorganic analyses by ion chromatography 706(1995)21

Calibration methods

Control of errors in anion chromatography applied to environmental research 706(1995)229

Simple method of electron capture detector calibration for quantitative measurements of F-11 and F-12 freons in the atmosphere 724(1996)265

Estimate of gas chromatographic blanks 726(1996)133

Partial least-squares and principal component regression of multi-analyte high-performance liquid chromatography with diode-array detection 727(1996)27

Canonical discriminant

Contribution of high-performance liquid chromatographic analysis of carbohydrates to authenticity testing of honey 706(1995)353

Capillary columns

Separation of metal cations by electrophoresis in a positively charged coated capillary 706(1995)517

Optimization of the separation of β -agonists by capillary electrophoresis on untreated and C₁₈ bonded silica capillaries 715(1995)345

Preparation and stability tests for polyacrylamide-coated capillaries for capillary electrophoresis 716(1995)27

Polymer-supported pseudo-stationary phase for electrokinetic chromatography. Electrokinetic chromatography in a full range of methanol-water mixtures with alkylated starburst dendrimers 716(1995)57

Evaluation of the parameters determining the performance of electrochromatography in packed capillary columns 716(1995)207

Capillary electrophoretic separation of proteins using stable, hydrophilic poly(acryloylaminoethoxyethanol)-coated columns 717(1995)1

Use of plate numbers achieved in capillary electrophoretic protein separations for characterization of capillary coatings 717(1995)15

- Analysis of halides, oxyhalides and metal oxoacids by capillary electrophoresis with suppressed electroosmotic flow 718(1995)421
- Studies of hydrogen/deuterium exchange of monodeuteriophenol in fused-silica capillary columns using gas chromatography–mass spectrometry 719(1996)474
- Transient electrophoretic processes in capillaries of non-uniform cross-section 730(1996)247
- Separation of basic proteins by capillary zone electrophoresis with coatings of a copolymer of vinylpyrrolidone and vinylimidazole 730(1996)289
- Non-bonded poly(ethylene oxide) polymer-coated column for protein separation by capillary electrophoresis 731(1996)273
- Microemulsion electrokinetic chromatographic separation of antipyretic analgesic ingredients 735(1996)353
- Electrochromatography in chemically modified etched fused-silica capillaries 736(1996)255
- Coated versus fused-silica capillaries for the separation of inorganic and organic cations by capillary zone electrophoresis 736(1996)265
- Separation of tetracyclines by high-performance capillary electrophoresis and capillary electrochromatography 736(1996)313
- Resin coating for capillaries giving a net positive charge and great potential for customised modification of surface properties 739(1996)367
- Capillary electrophoresis of anions in an untreated polypropylene hollow fiber 739(1996)373
- Poly(ethylene–propylene glycol)-modified fused-silica columns for capillary electrophoresis using epoxy resin as intermediate coating 741(1996)115
- Capillary electrophoresis of glycosylated proteins performed on a conventional capillary gas chromatographic column 741(1996)139
- Hydrolytically stable amino-silica glass coating material for manipulation of the electroosmotic flow in capillary electrophoresis 744(1996)17
- Preparative capillary electrophoresis with wide-bore capillaries 744(1996)45
- Method for measuring very weak, residual electroosmotic flow in coated capillaries 744(1996)55
- Characterisation of inner surface and adsorption phenomena in fused-silica capillary electrophoresis capillaries 744(1996)93
- Comparison of ampholytes used for slab gel and capillary isoelectric focusing of recombinant tissue-type plasminogen activator glycoforms 744(1996)279
- Oligonucleotide analysis by capillary polymer sieving electrophoresis using acryloylaminoethoxyethanol-coated capillaries 744(1996)347
- Separation of *D/L*-carnitine enantiomers by capillary electrophoresis 745(1996)53
- Gas chromatography of Titan's atmosphere 746(1996)63
- Immobilized liposome chromatography of drugs on capillary continuous beds for model analysis of drug–membrane interactions 749(1996)13
- Capillary columns, coated**
Non-native capillary isoelectric focusing for the analysis of the microheterogeneity of glycoproteins 737(1996)281
- Capillary columns, porous-layer open tubular**
Sampling and analysis of 1,3-butadiene in air by gas chromatography on a porous-layer open-tubular fused-silica column 710(1995)237
- Capillary electrophoresis**
see also Micellar electrokinetic chromatography and Special issue index
- Comparison of separation selectivity in aqueous and non-aqueous capillary electrophoresis 711(1995)313
- Optimisation of selectivity in capillary electrophoresis with emphasis on micellar electrokinetic capillary chromatography 715(1995)1
- Emersion peaks in capillary electrophoresis 716(1995)3
- Dynamic simulator for capillary electrophoresis with in situ calculation of electroosmosis 716(1995)17
- Optimum conditions for preparative operation of capillary zone electrophoresis 716(1995)141
- Statistical evaluation of various qualitative parameters in capillary electrophoresis 718(1995)153
- Transient electrophoretic processes in capillaries of non-uniform cross-section 730(1996)247
- Automated instrumentation for miniaturized displacement electrophoresis with on-column photometric detection 730(1996)261
- Maximization of separation efficiency in capillary electrophoretic chiral separations by means of mobility-matching background electrolytes 730(1996)273
- Improved reproducibility in capillary electrophoresis through the use of mobility and migration time ratios 735(1996)209

Capillary electrophoresis–mass spectrometry

see also Special issue index

Capillary electrophoresis–mass spectrometry 703(1995)667

Capillary restrictor

Variable flow control and collection device for use with supercritical fluids 738(1996)241

Capillary zone electrophoresis at subzero temperatures

Capillary zone electrophoresis at subzero temperatures. I. Separation of the *cis* and *trans* conformers of small peptides 716(1995)167

Carbohydrate mapping

Three-dimensional mapping of N-linked oligosaccharides using anion-exchange, hydrophobic and hydrophilic interaction modes of high-performance liquid chromatography 720(1996)217

Carbon columns

Reversed-phase liquid chromatography on a microspherical carbon column at high temperature 728(1996)189

Carbon sorbents

Carbon sorbents and their utilization for the preconcentration of organic pollutants in environmental samples 707(1995)145

Carcinogens

Determination of N-nitrosodimethylamine in beer by gas chromatography–stable isotope dilution chemical ionization mass spectrometry 708(1995)303

Determination of heterocyclic amines by pneumatically assisted electrospray liquid chromatography–mass spectrometry 730(1996)185

***Cardus benedictus* L**

High-performance liquid chromatographic–particle beam mass spectrometric analysis of sesquiterpene lactones with different carbon skeletons 727(1996)211

Carrot

Simple and rapid determination of the herbicides glyphosate and glufosinate in river water, soil and carrot samples by gas chromatography with flame photometric detection 726(1996)253

Catalysis

Reductive amination of N-linked oligosaccharides using organic acid catalysts 745(1996)273

Coupled simulated distillation–mass spectrometry for the evaluation of hydroconverted petroleum residues 750(1996)97

Cell culture media

Determination of inorganic cations in fermentation and cell culture media using cation-exchange liquid chromatography and conductivity detection 718(1995)319

Cellulose-derived stationary phases

Bonded cellulose-derived high-performance liquid chromatography chiral stationary phases. I. Influence of the degree of fixation on selectivity 728(1996)407

Bonded cellulose-derived high-performance liquid chromatography chiral stationary phases. II. Influence of the porosity of the silica gel matrix on performance 728(1996)415

Influence of flow-rate on the chromatographic performance of agarose- and cellulose-based anion-exchange media 734(1996)137

Comparison of the chelating ion exchange properties of dye coated cellulose and polystyrene substrates for the separation and determination of trace metals from aqueous media 739(1996)81

Regulation of cellulose-based adsorbent granule morphology (Review) 746(1996)147

Cell walls

Characterization of size-permeation limits of cell walls and porous separation materials by high-performance size-exclusion chromatography 708(1995)263

Centella asiatica

Determination of biologically active constituents in *Centella asiatica* 742(1996)127

Central composite design

Packed-column supercritical fluid chromatography of a new dihydropyridine drug based on direct injection of emulsion samples 749(1996)193

Central composite face centered designs

Derivatization of dipeptides with 4-fluoro-7-nitro-2,1,3-benzoxadiazole for laser-induced fluorescence and separation by micellar electrokinetic chromatography 716(1995)389

Chain length

Capillary gas chromatography of higher alkylpolyoxyethylene glycols with an even number of carbon atoms in the alkyl group. Influence of type of derivatizing agent, alcohol chain length and oxyethylene chain length on the retention indices with a linear temperature increase 727(1996)131

Effect of alkyl chain length of sodium N-acyl sarcosinates on migration behavior in micellar electrokinetic chromatography 744(1996)135

Chain length, alkyl

Effect of stationary phase on preparative protein separation in reversed-phase chromatography 702(1995)157

Chain-length distribution

Efficiency of chemical oligonucleotide synthesis evaluated by ion-exchange high-performance liquid chromatography 706(1995)405

Improvement of a method for chain-length distribution analysis of wheat amylopectin 732(1996)255

Chamaecytisus proliferus

Variation in the alkaloid content of different subspecies of *Chamaecytisus proliferus* from the Canary Islands 719(1996)237

Charge number

Ionic strength and charge number correction for mobilities of multivalent organic anions in capillary electrophoresis 709(1995)163

Cheese

Ball-lens laser-induced fluorescence detector as an easy-to-use highly sensitive detector for capillary electrophoresis. Application to the identification of biogenic amines in dairy products 717(1995)335

Rapid identification of biogenic amine-producing bacterial cultures using isocratic high-performance liquid chromatography 719(1996)321

Simple and sensitive high-performance liquid chromatography–fluorescence method for the determination of citrinin. Application to the analysis of fungal cultures and cheese extracts 723(1996)69

Prefractionation of aroma extracts from fat-containing food by high-performance size-exclusion chromatography 729(1996)371

Chelating agents

Evaluation of 1,2-diaminocyclohexanetetraacetic acid as eluent in the determination of inorganic anions and cations by ion chromatography 706(1995)115

Comparison of the chelating ion exchange properties of dye coated cellulose and polystyrene substrates for the separation and determination of trace metals from aqueous media 739(1996)81

Chelating ligands

Ion chromatographic determination of chelating ligands based on the postcolumn formation of ternary fluorescent complexes 739(1996)307

Chelation

On-column chelation of metal ions in capillary zone electrophoresis 717(1995)385

Chelidonium majus

Application of β -cyclodextrin for the analysis of the main alkaloids from *Chelidonium majus* by capillary electrophoresis 717(1995)271

Chemical equilibria, multiple

Interpretation of migration behaviour of inorganic cations in capillary ion electrophoresis based on an equilibrium model 706(1995)503

Chemical reaction interface mass spectrometry

Element- and isotope-specific detection for high-performance liquid chromatography using chemical reaction interface mass spectrometry 732(1996)189

Chemiluminescence detection

Thin-layer chromatography with chemiluminescent detection of enhancers of the luminol– H_2O_2 –peroxidase system 724(1996)411

Postcolumn chemiluminescence, ultraviolet and evaporative light-scattering detectors in high-performance liquid chromatographic determination of triacylglycerol oxidation products 734(1996)221

Feasibility of supercritical fluid chromatography–chemiluminescent nitrogen detection with open tubular columns 734(1996)303

Indirect chemiluminescence detection of amino acids separated by capillary electrophoresis 736(1996)247

Integrated derivatization–chemiluminescence detection system for the determination of β -carboline alkaloids by high-performance liquid chromatography 749(1996)73

Chemiluminescence nitrogen detection

Peptide content determination of crude synthetic peptides by reversed-phase liquid chromatography and nitrogen-specific detection with a chemiluminescent nitrogen detector 743(1996)85

Chemometrics

Chromatographic and chemometric investigation of the chemical defence mechanism of poplar tree genotypes against a bark fungine parasite 715(1995)95

Derivatization of dipeptides with 4-fluoro-7-nitro-2,1,3-benzoxadiazole for laser-induced fluorescence and separation by micellar electrokinetic chromatography 716(1995)389

Quantitative structure–retention relationships (QSRR) of congeneric aromatics series studied on phenyl OV phases in gas chromatography 723(1996)77

Partial least-squares and principal component regression of multi-analyte high-performance liquid chromatography with diode-array detection 727(1996)27

New stationary phases for the high-performance liquid chromatographic separation of nucleosides and cyclic nucleotides 728(1996)201

Application of multivariate self-modeling curve resolution to the quantitation of trace levels of organophosphorus pesticides in natural waters from interlaboratory studies 730(1996)177

Rational experimental design for bioanalytical methods validation. Illustration using an assay method for total captopril in plasma 730(1996)381

Assessment of chromatographic peak purity by means of artificial neural networks 734(1996)259

Application of Derringer's desirability function for the selection of optimum separation conditions in capillary zone electrophoresis 740(1996)109

Chiral discrimination

Determination of enantiomerization barriers by computer simulation of experimental elution profiles obtained by high-performance liquid chromatography on a chiral stationary phase 731(1996)315

Chiral micelles

Micellar electrokinetic capillary chromatography with in-situ charged micelles 724(1996)285

Chiralpak AD

Influence of the kind of the alcoholic modifier on chiral separation on a Chiralpak AD column 728(1996)249

Chiral recognition model

Quinine and quinidine derivatives as chiral selectors 741(1996)33

Chiral recognition suppression

Suppression of chiral recognition of 3-hydroxy-1,4-benzodiazepines during micellar electrokinetic capillary chromatography with bile salts 704(1995)238

Chiral selectors

Cationic β -cyclodextrin: a new versatile chiral additive for separation of drug enantiomers by high-performance liquid chromatography 704(1995)67

Enantiomeric resolution of anionic *R/S*-1,1'-binaphthyl-2,2'-diyl hydrogen phosphate by capillary electrophoresis using anionic cyclodextrin derivatives as chiral selectors 704(1995)234

Effect of urea addition on chiral separation of dansylamino acids by capillary zone electrophoresis with cyclodextrins 710(1995)331

Enantiomeric separation of amphetamine related drugs by capillary zone electrophoresis using native and derivatized β -cyclodextrin as chiral additives 710(1995)339

Determination of the enantiomeric purity of 5,6-dihydroxy-2-aminotetralin by high-performance capillary electrophoresis with crown ether as chiral selector 715(1995)143

Enantiomeric resolution using the macrocyclic antibiotics rifamycin B and rifamycin SV as chiral selectors for capillary electrophoresis 715(1995)337

Use of negatively charged sulfobutyl ether- β -cyclodextrin for enantiomeric separation by capillary electrophoresis 716(1995)183

Covalently bonded permethylated cyclodextrins, new selectors for enantiomeric separations by liquid chromatography 728(1996)171

Direct chiral separation of amino acids derivatized with 2-(9-anthryl)ethyl chloroformate by capillary electrophoresis using cyclodextrins as chiral selectors 731(1996)283

Determination of stoichiometric coefficients and apparent formation constants for α - and β -CD complexes of terpenes using reversed-phase liquid chromatography 736(1996)1

Quinine and quinidine derivatives as chiral selectors 741(1996)33

Use of heptakis(2,6-di-*O*-methyl)- β -cyclodextrin in on-line capillary zone electrophoresis-mass spectrometry for the chiral separation of ropivacaine 742(1996)235

Utilization of *n*-alkyl- β -D-glucopyranosides in enantiomeric separation by micellar electrokinetic chromatography 749(1996)257

Chiral stationary phases, GC

Glycerol as a new dissolution medium for α -, β - and γ -cyclodextrins for preparing stereoselective stationary phases for gas-liquid chromatography 715(1995)309

Enantiomer separation by gas and high-performance liquid chromatography with tripeptide derivatives as chiral stationary phases 722(1996)229

Systematic modification of the separation selectivity of cyclodextrin-based gas chromatographic stationary phases by varying the size of the 6-O-substituents 738(1996)31

Cyclodextrin derivatives in the gas chromatographic separation of racemic mixtures of volatile compounds 742(1996)161

Gas chromatographic enantiomer separation on a chiral self-associating selector 746(1996)53

Chiral stationary phases, LC

Egg yolk riboflavin binding protein as a new chiral stationary phase in high-performance liquid chromatography 704(1995)55

Broadly applicable polysiloxane-based chiral stationary phase for high-performance liquid chromatography and supercritical fluid chromatography 705(1995)185

Separation of enantiomers on a pepsin-bonded column 708(1995)161

Chiral separations of β -blocking drug substances using chiral stationary phases 708(1995)253

GABA-B agonists: enantiomeric resolution of 4-amino-3-(5-chlorothien-2-yl)butyric acid and analogues on chiral crown ether stationary phase 715(1995)361

- Optimization of chiral selectivity on cellulose-based high-performance liquid chromatographic columns using aprotic mobile-phase modifiers 718(1995)9
- Supramolecular effects in the chiral discrimination of *meta*-methylbenzoyl cellulose in high-performance liquid chromatography 718(1995)257
- Development of DNA-immobilised chromatographic stationary phases for optical resolution and DNA-affinity comparison of metal complexes 718(1995)436
- Observations relevant to the differential intercalation of enantiomers between the strands of brush-type chiral stationary phases 719(1996)299
- Facile separation of the enantiomers of diethyl *N*-(aryl)-1-amino-1-arylmethanephosphonates on a rationally designed chiral stationary phase 721(1996)241
- Factorial design approach to studying the high-performance liquid chromatographic chiral separation of *N*-arylthiazolin-2-(thi)one atropisomers on CHIRALCEL OJ 722(1996)177
- Enantioseparation of amino acids and amino alcohols on chiral stationary phases derived from α -amino acid- and pyrrolidinyl-disubstituted cyanuric chloride 722(1996)189
- Enantioseparation and recognition mechanisms of dinitrobenzoyl-derivatized amino acids and amino alcohols on chiral stationary phases consisting of cyanuric chloride with (*S* or *R*)-phenylalanyl-(*S* or *R*)-1-(1-naphthyl)ethylamide substituent 722(1996)199
- Evaluation of new chiral stationary phases of bonded cyanuric chloride with amino acid and naphthylalkylamine substituents for liquid chromatographic separation of amino acids and amino alcohols as dinitrobenzoyl derivatives 722(1996)211
- Enantiomer separation by gas and high-performance liquid chromatography with tripeptide derivatives as chiral stationary phases 722(1996)229
- Enantioselective chromatography on brush-type chiral stationary phases containing totally synthetic selectors. Theoretical aspects and practical applications 724(1996)79
- Comparison of chiral separations on polysaccharide chiral stationary phases to an improved Pirkle phase 725(1996)219
- High-performance liquid chromatographic separation of the enantiomers of *N*-aryloxazolinones, *N*-aryl thiazolinones and their sulfur derivatives on a synthetic chiral stationary phase 726(1996)91
- Selective immobilization on silica gel of permethylated β -cyclodextrin for liquid chromatography 727(1996)195
- Molecularly imprinted uniform-size polymer-based stationary phase for high-performance liquid chromatography 728(1996)139
- Covalently bonded permethylated cyclodextrins, new selectors for enantiomeric separations by liquid chromatography 728(1996)171
- Flash chiral chromatography with cellulose tris(3,5-dimethylphenylcarbamate)-coated phases 728(1996)195
- Bonded cellulose-derived high-performance liquid chromatography chiral stationary phases. I. Influence of the degree of fixation on selectivity 728(1996)407
- Bonded cellulose-derived high-performance liquid chromatography chiral stationary phases 728(1996)415
- Enantiomeric resolution of axially chiral compounds and interconvertible enantiomers by high-performance liquid chromatography 728(1996)433
- Liquid chromatographic separation of amino acid enantiomers on a silica-bonded chiral *s*-triazine column 728(1996)447
- Liquid chromatographic separation of chiral triazolophthalazines 729(1996)5
- Preparative isolation of the eutomer of cyclothiazide by high-performance liquid chromatography on a cellulose-derived chiral stationary phase with toluene-acetone as the mobile phase 729(1996)29
- Facile liquid chromatographic enantioresolution of native amino acids and peptides using a teicoplanin chiral stationary phase 731(1996)123
- Some thoughts on the coupling of dissimilar chiral columns or the mixing of chiral stationary phases for the separation of enantiomers 731(1996)322
- Improved chiral stationary phase derived from (*S*)-naproxen for the liquid chromatographic resolution of enantiomers 732(1996)209
- Diphenylethanediamine derivatives as chiral selectors 732(1996)215
- Incremental development of chiral selectors for underivatized profens 736(1996)31
- Preparation and enantioselectivity of (*S*)-binaphthol-bonded phase for high-performance liquid chromatography 736(1996)39
- Investigation of the enantioselective separations of α -alkylarylcarboxylic acids on an amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase using quantitative structure-enantioselective retention relationships 737(1996)157
- Regioselective carbamoylated and benzoylated cellulose for the separation of enantiomers in high-performance liquid chromatography 738(1996)157

Efficient high-performance liquid chromatographic enantioseparation of five-membered aryl-substituted lactones and cyclic carbamates on a (*R,R*)-diaminodihydroethanoanthracene-derived chiral stationary phase 740(1996)11

Comparison of the chiral resolution on *cis-trans* isomeric chiral stationary phases derived from (*S*)-1-(1-naphthyl)ethylamine 740(1996)183

Effects of organic modifiers on the chiral recognition by different types of silica-immobilized bovine serum albumin 740(1996)207

Chromatographic separation of enantiomers on N,N'-diallyl-L-tartardiamide-based network-polymeric chiral stationary phases 741(1996)23

Quinine and quinidine derivatives as chiral selectors 741(1996)33

Mechanistic investigation into the enantioselective separation of mexiletine and related compounds, chromatographed on an amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase 741(1996)205

Investigation on enantiomeric separations of fluorenylmethoxycarbonyl amino acids and peptides by high-performance liquid chromatography using native cyclodextrins as chiral stationary phases 743(1996)261

Comparison of liquid and supercritical fluid chromatography using naphthylethylcarbamoylated- β -cyclodextrin chiral stationary phases 746(1996)91

On the relevance of face-to-edge π - π interactions to chiral recognition 749(1996)19

Resolution of enantiomeric steroids by high-performance liquid chromatography on chiral stationary phases 749(1996)61

Chiral stationary phases, SFC

Broadly applicable polysiloxane-based chiral stationary phase for high-performance liquid chromatography and supercritical fluid chromatography 705(1995)185

Comparison of liquid and supercritical fluid chromatography using naphthylethylcarbamoylated- β -cyclodextrin chiral stationary phases 746(1996)91

Chiral stationary phases, TLC

Thin-layer chromatographic separation of enantiomeric dansylamino acids using a macrocyclic antibiotic as a chiral selector 736(1996)235

Chiral surfactants

Separation of piperidine-2,6-dione drug enantiomers by micellar electrokinetic capillary chromatography using synthetic chiral surfactants 724(1996)307

Chromatogram generator

"Chromatogram generator" chromatogram modelling software 706(1995)31

Chromatography theory

Nuclear magnetic resonance and the design of chromatographic separations 707(1995)45

Chromobacterium viscosum

Hydrophobic interaction chromatography of *Chromobacterium viscosum* lipase 707(1995)137

Hydrophobic interaction chromatography of *Chromobacterium viscosum* lipase on polyethylene glycol immobilized on Sepharose 734(1996)213

Chrysanthemum segetum

Determination of coumarins from *Chrysanthemum segetum* L. by capillary electrophoresis 709(1995)197

α -Chymotrypsin

Selection of peptides with surface affinity for α -chymotrypsin using a phage display library 711(1995)119

***Cis-trans* isomerization**

Kinetic study on the *cis-trans* isomerization of peptidyl-proline dipeptides 744(1996)259

***Cis-trans* isomers**

Capillary zone electrophoresis at subzero temperatures. I. Separation of the *cis* and *trans* conformers of small peptides 716(1995)167

Citrus seeds

Micellar electrokinetic capillary chromatography of limonoid glucosides from citrus seeds 718(1995)187

Clean-in-place protocol

Validation studies in the regeneration of ion-exchange celluloses 702(1995)59

Purification of recombinant human basic fibroblast growth factor: stability of selective sorbents under cleaning in place conditions 711(1995)129

Clean-up methods

see also Extraction methods, Preconcentration and Sample handling

Critical review of the analysis of non- and mono-*ortho*-chlorobiphenyls 703(1995)417

Clean-up procedure for the determination of inorganic anions by ion chromatography 706(1995)137

Extraction and clean-up methods for improvement of the chromatographic determination of polychlorinated biphenyls in sewage sludge-amended soils: elimination of lipids and sulphur 719(1996)121

Use of immunoaffinity chromatography as a simplified cleanup technique for the liquid chromatographic determination of phenylurea herbicides in plant material 732(1996)277

Closeable sampling columns

Coupling of thermal desorption in modified closeable sampling columns with wide-bore capillary gas chromatography and mass spectrometric detection 750(1996)239

Cluster analysis

Retention behavior of quinolones in reversed-phase liquid chromatography 722(1996)69

Determination of the retention behaviour of some non-ionic surfactants on reversed-phase high-performance liquid chromatography supports by spectral mapping in combination with cluster analysis or non-linear mapping 722(1996)281

Structure-retention relationships of steroid hormones in reversed-phase liquid chromatography and micellar electrokinetic capillary chromatography 728(1996)83

Cluster phenomena

Unified equation between Kováts indices on different stationary phases for select types of compounds 731(1996)187

Coal

Size-exclusion chromatography of solubilised low-rank coal 724(1996)97

New approach to the characterization of pyrolysis coal products by gas chromatography-mass spectrometry 736(1996)185

Hyphenated techniques for characterizing coal wastewaters and associated sediments 750(1996)287

Coal tar pitch

Fractionation by planar chromatography of a coal tar pitch for characterisation by size-exclusion chromatography, UV fluorescence and direct-probe mass spectrometry 708(1995)143

Coal tars

Chromatographic evaluation of some selected polycyclic aromatic hydrocarbons of coal tars produced under different coking conditions and pitches derived from them 719(1996)181

Coated capillaries

Separation of metal cations by electrophoresis in a positively charged coated capillary 706(1995)517

Resin coating for capillaries giving a net positive charge and great potential for customised modification of surface properties 739(1996)367

Oligonucleotide analysis by capillary polymer sieving electrophoresis using acryloylaminoethoxyethanol-coated capillaries 744(1996)347

Coating

Epoxy resin coatings for capillary zone electrophoretic separation of basic proteins 723(1996)157

Dispersion effects accompanying pressurized zone mobilisation in capillary isoelectric focusing of proteins 738(1996)123

Study of protein binding to a silica support with a polymeric cation-exchange coating 743(1996)15

Hydrolytically stable amino-silica glass coating material for manipulation of the electroosmotic flow in capillary electrophoresis 744(1996)17

Method for measuring very weak, residual electroosmotic flow in coated capillaries 744(1996)55

Synthesis and chromatographic characterization of dextran-coated zirconia high-performance liquid chromatographic stationary phases 746(1996)199

Coating methods

Epoxy resin coatings for capillary zone electrophoretic separation of basic proteins 723(1996)157

Coffee

Determination of serotonin released from coffee wax by liquid chromatography 730(1996)59

Coherence theory

On non-linear waves in chromatography 734(1996)3

Non-linear waves in chromatography (Review) 734(1996)7

Collagen

Improved rapid method for the isolation, purification and identification of collagen glycosides 732(1996)385

Colloidal particles

Influence of bulk and surface composition on the retention of colloidal particles in thermal field-flow fractionation 715(1995)117

Colloids

Analysis of colloids. VIII. Concentration- and memory effects in size exclusion chromatography of colloidal inorganic nanometer-particles 707(1995)189

Colloids, natural

Determination of adsorption characteristics of the nutrient orthophosphate to natural colloids by sedimentation field-flow fractionation 733(1996)105

Colour-indication suppressor

Colour-indication suppressor for anion chromatography 706(1995)55

Column efficiency

Temperature of the eluent: a neglected tool in high-performance liquid chromatography? 728(1996)299

Packed-column hydrodynamic chromatography using 1- μ m non-porous silica particles 740(1996)159

Column radial homogeneity in high-performance liquid chromatography 740(1996)169

Column geometry

Adaptation of high-performance liquid chromatographic methods to multiple spectral analyses 728(1996)351

Transient electrophoretic processes in capillaries of non-uniform cross-section 730(1996)247

Column length

Fast, reproducible size-exclusion chromatography of biological macromolecules 743(1996)43

Column monitoring

Evaluation of the potential usefulness of in situ fiber optic sensors for column monitoring in chromatographic separations and purifications 736(1996)51

Column overloading

Retention behaviour of proteins under conditions of column overload in hydrophobic interaction chromatography 729(1996)43

Columns, radial compression

Study of the operating conditions of radial compression columns in preparative chromatography 728(1996)3

Columns, radially heterogeneous cylindrical

Modeling of radial heterogeneity in chromatographic columns 734(1996)97

Column stability

Effect of buffers on silica-based column stability in reversed-phase high-performance liquid chromatography 728(1996)259

Column switching

see also Coupled columns

Coupled-column reversed-phase liquid chromatography in environmental analysis 703(1995)149

Perfusion immunoassay for acetylcholinesterase: analyte detection based on intrinsic activity 711(1995)23

Significant reduction of the detection limit in ion chromatography by relative analyte enrichment with column switching 723(1996)11

Resolution of complex mixtures of non-flavonoid polyphenols by column-switching high-performance liquid chromatography using octadecylsilica and graphitized carbon columns 724(1996)67

Direct injection of large volumes of plasma in a column-switching system for the analysis of local anaesthetics 725(1996)137

Direct injection of large volumes of plasma in a column-switching system for the analysis of local anaesthetics. II. Determination of bupivacaine in human plasma with an alkyl-diolsilica precolumn 725(1996)149

Simultaneous determination of L-702,007, a HIV-1 reverse transcriptase inhibitor, and its 6-hydroxy metabolite in human plasma by column-switching high-performance liquid chromatography with fluorescence detection 729(1996)211

Improved high-performance liquid chromatographic determination of amoxicillin in human plasma by means of column switching 729(1996)259

Stereoselective determination of unchanged and glucuroconjugated eliprodil, a new anti-ischaemic drug, in human plasma and urine by precolumn derivatization and column-switching high-performance liquid chromatography with fluorescence detection 729(1996)323

Automatic high-performance liquid chromatographic method for the determination of diarrhetic shellfish poison 729(1996)387

Simultaneous determination of uric acid and creatinine in biological fluids by column-switching liquid chromatography with ultraviolet detection 730(1996)139

Preliminary experiments for the analysis of tetrahydrotetraols of benz[*a*]anthracene and benzo[*a*]pyrene derived from their hemoglobin adducts using a coupled-column high-performance liquid chromatographic system 730(1996)153

Systematic approach to generic matrix elimination via "heart-cut" column-switching techniques 739(1996)43

Ion-pair chromatography of methotrexate in a column-switching system using an alkyl-diolsilica precolumn for direct injection of plasma 742(1996)113

Determination of polycyclic aromatic hydrocarbons in edible oils and fats by on-line donor-acceptor complex chromatography and high-performance liquid chromatography with fluorescence detection 750(1996)263

Column temperature

Reversed-phase chiral ion-pair chromatography at a column temperature below 0°C using three generations of Hypercarb as solid-phase 732(1996)245

Combustion

Determination of phosphorus by sample combustion followed by non-suppressed ion chromatography 706(1995)199

Assessment by gas chromatography and gas chromatography-mass spectrometry of volatile hydrocarbons from biomass burning 710(1995)71

***Commiphora guillaumini* Perr**

Identification of the lipids and the ant attractant 1,2-dioleoylglycerol in the arils of *Commiphora guillaumini* Perr. (Burseraceae) by supercritical fluid chromatography–atmospheric pressure chemical ionisation mass spectrometry 727(1996)139

Competitive inhibition

Study of the competitive inhibition of adenosine deaminase by erythro-9-(2-hydroxy-3-nonyl)adenine using capillary zone electrophoresis 745(1996)293

Complex formation

Capillary electrophoretic separation of metal ions using complex forming equilibria of different stabilities 745(1996)103

Complexation

Separation of chromate and tungstate by reversed-phase high-performance chromatography using rutin as chelating reagent 709(1995)381

Buffer effects in the desionoselective/ionoselective/duoselective separation selectivity model-assisted optimization of the capillary electrophoretic separation of enantiomers. I. Low-pH phosphate buffers 716(1995)197

Determination of chloride complex of Au(III) by capillary zone electrophoresis with direct UV detection 718(1995)227

Binding forces contributing to reversed-phase liquid chromatographic retention on a β -cyclodextrin bonded phase 722(1996)41

High-performance liquid chromatography of amino acids in copper(II) complex form: application to valine fermentation samples 722(1996)311

Thermodynamic parameters of the formation of a complex between cyclodextrins and steroid hormones 728(1996)89

Simultaneous determination of vanadium and molybdenum as N-benzoyl-N-phenylhydroxamate complexes by combining solvent extraction and liquid chromatography 730(1996)241

Preparation of Cu(II) complexes of oxidized chlorophylls and their determination by thin-layer and high-performance liquid chromatography 731(1996)261

Ion chromatographic speciation of chromium with diphenylcarbazide-based spectrophotometric detection 736(1996)141

Capillary zone electrophoretic and micellar electrokinetic capillary chromatographic separations of polyaminopolycarboxylic acids as their copper complexes 736(1996)333

Simultaneous analysis of some transition metals at ultra-trace level by ion-exchange chromatography with on-line preconcentration 739(1996)119

Retention behaviour of thorium(IV) and uranyl on a reversed-phase column with glycolate and mandelate as eluents 739(1996)151

Ion chromatographic determination of chelating ligands based on the postcolumn formation of ternary fluorescent complexes 739(1996)307

Study of metal–fulvic acid interactions by capillary electrophoresis 739(1996)421

Direct determination of iron(II), iron(III) and total iron as UV-absorbing complexes by capillary electrophoresis 740(1996)151

High-performance liquid chromatography of the coordination isomers of triphenylphosphine-substituted homo- and hetero-bimetallic carbonyl complexes of manganese and rhenium 740(1996)231

Solubility and polarity parameters for pyridinecarboxamides and their complexes with copper(II) as determined by inverse gas chromatography 740(1996)253

Simultaneous solvent extraction and high-performance liquid chromatographic determination of uranium, iron, nickel and copper in mineral ore samples and phosphate rock residues using N,N'-ethylenebis(salicylaldimine) as complexing reagent 740(1996)296

Capillary electrophoretic separation of metal ions using complex forming equilibria of different stabilities 745(1996)103

Complex formation constant

Molecular recognition of phenobarbital in plasticizers. Equilibrium investigations on the solubility of the barbiturate artificial receptor and its binding to phenobarbital in plasticizers 722(1996)47

Complexing agents

Separation of transition metal cations by capillary electrophoresis. Optimization of complexing agent concentrations (lactic acid and 18-crown-6) 717(1995)393

Retention models for the ion chromatographic separations of metals in the presence of complexing agents 737(1996)129

Complexing sorbents

Chemically bonded chelates as selective complexing sorbents for gas chromatography. IV. Silica surfaces modified with Co(II) and Ni(II) complexes 723(1996)313

Component peak distribution

Sample dimensionality: a predictor of order–disorder in component peak distribution in multidimensional separation 703(1995)3

Composition paths

On non-linear waves in chromatography 734(1996)3

Comprehensive two-dimensional GC

Comprehensive multi-dimensional gas chromatography 703(1995)327

Computer-assisted chromatography

Computer aided desk-top scale-up and optimisation of chromatographic processes 702(1995)81

Computer-aided optimization of gradient multiple development thin-layer chromatography. III. Multi-stage development over a constant distance 726(1996)185

Partial least-squares and principal component regression of multi-analyte high-performance liquid chromatography with diode-array detection 727(1996)27

Computer-assisted optimization

Optimization of resolution in micellar electrokinetic chromatography via computer-aided simultaneous variation of concentrations of sodium dodecyl sulfate and urea as modifier 716(1995)81

Computer simulation

Computer program for simulating the performance of thick-bed diffusive samplers: predicted and experimental sample loss due to reversible adsorption 709(1995)283

Dynamic simulator for capillary electrophoresis with in situ calculation of electroosmosis 716(1995)17

Resolution of complex mixtures of non-flavonoid polyphenols by column-switching high-performance liquid chromatography using octadecylsilica and graphitized carbon columns 724(1996)67

Method to study the separation of eight *p*-hydroxybenzoic esters by gas chromatography 727(1996)93

High-performance liquid chromatographic separation of the impurities in a pharmaceutical raw material with the aid of computer simulation 729(1996)189

Determination of enantiomerization barriers by computer simulation of experimental elution profiles obtained by high-performance liquid chromatography on a chiral stationary phase 731(1996)315

Dynamic modeling of electrophoretically mediated microanalysis 732(1996)119

Modeling of the influence of the experimental conditions on the separation of the components of a binary mixture in isocratic overloaded elution preparative chromatography 734(1996)49

Mathematical modelling and computer simulation of aqueous two-phase continuous protein extraction 741(1996)151

Concentration effects

Analysis of colloids. VIII. Concentration- and memory effects in size exclusion chromatography of colloidal inorganic nanometer-particles 707(1995)189

Concentration profile

Steady-state concentration boundary profile for the injection of a single-component feed in counter-current chromatography 728(1996)25

Condensation nucleation light-scattering detection

Direct comparison of evaporative light-scattering and condensation nucleation light-scattering detection for liquid chromatography 736(1996)11

Conductivity detection

High-sensitivity conductivity detection in non-suppressed ion chromatography using sulfoisophthalic acid as eluent 727(1996)311

Confocal scanning laser microscopy

Confocal microscopy as a tool for studying protein adsorption to chromatographic matrices 743(1996)75

Conformational effects

Conformational effects in reversed-phase high-performance liquid chromatography of polypeptides. I. Resolution of insulin variants 711(1995)61

Conformer separation

Capillary zone electrophoresis at subzero temperatures. I. Separation of the *cis* and *trans* conformers of small peptides 716(1995)167

Conformer-conformer transition

Liquid chromatographic and capillary electrophoretic examination of intact and degraded fusion protein CTLA4Ig and kinetics of conformational transition 723(1996)273

Connectivity indices

Prediction of chromatographic properties for a group of natural phenolic derivatives by molecular topology 719(1996)45

Using topological indices in the prediction of gas chromatographic retention indices of linear alkylbenzene isomers 719(1996)462

Structure-retention relationships of steroid hormones in reversed-phase liquid chromatography and micellar electrokinetic capillary chromatography 728(1996)83

Consolidation

Consolidation of the packing material in chromatographic columns under dynamic axial compression. II. Consolidation and breakage of several packing materials 719(1996)275

Consolidation of the packing material in chromatographic columns under dynamic axial compression. III. Effect of the nature of the packing solvent on the consolidation and performance of axial compression columns 741(1996)165

Consolidation of the packing material in chromatographic columns under dynamic axial compression IV. Mechanical properties of some packing materials 741(1996)175

Continuous beds

Simulation of the combined continuous and preparative gas-liquid chromatographic separation of three close-boiling components 734(1996)145

Continuous chromatography

Combined continuous and preparative chromatographic separation 707(1995)105

Continuous protein extraction

Mathematical modelling and computer simulation of aqueous two-phase continuous protein extraction 741(1996)151

Contour mapping

Comparison of softwares used for the detection of analytes present at low levels in liquid chromatographic-mass spectrometric experiments 712(1995)31

Copper electrodes, pretreatment

Copper electrodes for stable subpicomole detection of carbohydrates in high-performance liquid chromatography 721(1996)53

Coral skeletons

Determination of Cd, Co, Cu, Fe, Mn, Ni and Zn in coral skeletons by chelation ion chromatography 706(1995)167

Determination of nitrate, phosphate and organically bound phosphorus in coral skeletons by ion chromatography 706(1995)209

Correlation chromatograms

Correlation chromatograms from a triple-detector system 737(1996)223

Correspondence factor analysis

Quantitative structure-retention relationships (QSRR) of congeneric aromatics series studied on phenyl OV phases in gas chromatography 723(1996)77

Corrosion

Migration behavior and separation of aromatic triazole and thiazole compounds by capillary zone electrophoresis 731(1996)299

Sources of variability in cation analysis for a quantitative exfoliation corrosion resistance test 739(1996)183

Analysis of disparate levels of anions of relevance to corrosion processes 739(1996)191

Corrosion inhibitors

Migration behavior and separation of aromatic triazole and thiazole compounds by capillary zone electrophoresis 731(1996)299

Cosmetics

Determination of amphoteric surfactants in cosmetic cleansing products by high-performance liquid chromatography on a cation-exchange column 715(1995)195

Cotton

Determination of black dyes from cotton and wool fibres by capillary zone electrophoresis with UV detection: application of marker technique 717(1995)149

Coulometric working electrodes

Simultaneous determination of α -tocopherol and α -tocopherolquinone by high-performance liquid chromatography and coulometric detection in the redox mode 722(1996)287

Counter-current chromatography

Separation of peptide derivatives by pH-zone-refining counter-current chromatography 702(1995)197

Separation and purification of peptides by high-speed counter-current chromatography 702(1995)207

Resolution of gram quantities of racemates by high-speed counter-current chromatography 704(1995)75

Counter-current chromatographic separation of polyunsaturated fatty acids 704(1995)211

Preparative separation of phenolic compounds from *Picea abies* by high-speed counter-current chromatography 719(1996)438

Optimum liquid and solid-phase velocity for minimum shock layer thickness in counter-current chromatography 721(1996)187

Counter-current chromatography using supercritical fluid carbon dioxide as mobile phase 724(1996)91

Countercurrent chromatographic analysis of ovalbumin obtained from various sources using the cross-axis coil planet centrifuge 724(1996)179

pH-Zone refining counter-current chromatography of polar catecholamines using di-(2-ethylhexyl)phosphoric acid as a ligand 724(1996)348

Steady-state concentration boundary profile for the injection of a single-component feed in counter-current chromatography 728(1996)25

Preparative separation of pyrrolizidine alkaloids by high-speed counter-current chromatography 732(1996)43

Isolation of 4'-bromo-4,5,6,7-tetrachlorofluorescein from a synthetic mixture by pH-zone-refining counter-current chromatography with continuous pH monitoring 732(1996)283

Coupled columns

see also Column switching

Coupled-column reversed-phase liquid chromatography in environmental analysis 703(1995)149

On-line solid-phase extraction in liquid chromatography using restricted access pre-columns for the analysis of *s*-triazines in humic-containing waters 737(1996)35

Rapid determination of glufosinate, glyphosate and aminomethylphosphonic acid in environmental water samples using precolumn fluorogenic labeling and coupled-column liquid chromatography 737(1996)75

Simultaneous determination of arsenic species by ion chromatography–inductively coupled plasma mass spectrometry 750(1996)83

Speciation of chromium in waste waters by coupled column ion chromatography–inductively coupled plasma mass spectrometry 750(1996)89

Coupling reactions

Monitoring of hapten–protein coupling reactions by capillary zone electrophoresis: improvement of abscisic acid–bovine serum albumin coupling and determination of molar coupling ratios 723(1996)381

Critical micelle concentration

Determination of critical micelle concentration by capillary electrophoresis. Theoretical approach and validation 718(1995)167

Determination of critical micelle concentration by capillary electrophoresis 743(1996)307

Critical solvent composition

Critical retention behaviour of polymers 727(1996)13

Cross-axis coil planet centrifuge

Separation and purification of peptides by high-speed counter-current chromatography 702(1995)207

Countercurrent chromatographic analysis of ovalbumin obtained from various sources using the cross-axis coil planet centrifuge 724(1996)179

Cross-linking, chemical

Characterization of molecular aggregates of $\alpha_1\beta_1$ -integrin and other rat liver membrane proteins by combination of size-exclusion chromatography and chemical cross-linking 711(1995)187

Crude oil

Detection of iodide in geologic materials by high-performance liquid chromatography 706(1995)215

Cryogenic trapping

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Detectability enhancement by the use of large-volume injections in gas chromatography–cryotrapping–Fourier transform infrared spectrometry 732(1996)75

Culture medium

Sensitive determination of sugars by capillary zone electrophoresis with indirect UV detection under highly alkaline conditions 716(1995)231

Curve resolution

Application of multivariate self-modeling curve resolution to the quantitation of trace levels of organophosphorus pesticides in natural waters from interlaboratory studies 730(1996)177

Cyanobacteria

Determination of the cyanobacterial osmolyte glucosylglycerol by high-performance liquid chromatography 704(1995)89

Cyanopropylphenyl dimethyl polysiloxane

Gas chromatography of Titan's atmosphere 746(1996)63

Cyclic voltammetry

Determination of Cs-137 in environmental water by ion-exchange chromatography (Review) 733(1996)57

Cyclodextrin-based stationary phases

Use of a trio of modified cyclodextrin gas chromatographic phases to provide structural information on some constituents of volatile oils 707(1995)390

Use of principal component analysis for the study of the retention behaviour of anticancer drugs on a β -cyclodextrin polymer-coated silica column 728(1996)67

Relative polarities of nine modified cyclodextrin commercial stationary phases in gas chromatographic capillaries 719(1996)375

Covalently bonded permethylated cyclodextrins, new selectors for enantiomeric separations by liquid chromatography 728(1996)171

Plots of relative retention against solute boiling points may indicate host–guest interactions with modified cyclodextrin gas chromatographic phases 732(1996)408

Cyclodextrin derivatives in the gas chromatographic separation of racemic mixtures of volatile compounds 742(1996)161

Investigation on enantiomeric separations of fluorenylmethoxycarbonyl amino acids and peptides by high-performance liquid chromatography using native cyclodextrins as chiral stationary phases 743(1996)261

Enantioseparation in the synthesis of *myo*-inositol phosphates by high-performance liquid chromatography using a β -cyclodextrin-bonded column 749(1996)25

Cylindrical symmetry

Modeling of radial heterogeneity in chromatographic columns 734(1996)97

D

Data analysis

Multispectral detection for gas chromatography 703(1995)335

Fractals for multicyclic synthesis conditions of biopolymers
739(1996)431

Deconvolution methods

Analysis of overlapped chromatographic peaks by multi-channel
electrochemical detection 722(1996)151

Degradation kinetics

Monitoring of the poly(D,L-lactic acid) degradation by-products
by capillary zone electrophoresis 711(1995)323

Dendritic polyelectrolytes

Ion-exchange displacement chromatography of proteins.
Dendritic polymers as novel displacers 702(1995)143

Density-gradient electrophoresis

Free-solution electrophoresis of proteins in an improved density
gradient column and by capillary electrophoresis 707(1995)77

Denuder samplers

Assessing breakthrough times for denuder samplers with
emphasis on volatile organic compounds 723(1996)301

Denuder tubes

Denuder tubes used with gas chromatographic instrumentation
to measure rate coefficients and equilibrium constants
710(1995)191

Derivatization

On-line use of NMR detection in separation chemistry
703(1995)123

Element-specific chromatographic detection by atomic
absorption, plasma atomic emission and plasma mass
spectrometry 703(1995)393

Selective determination of peptides containing specific amino
acid residues by high-performance liquid chromatography and
capillary electrophoresis 704(1995)27

Precolumn derivatization for chromatographic and
electrophoretic analyses of carbohydrates 720(1996)173

2-Phosphoglycolate and glycolate-electrophore detection,
including detection of 87 zeptomoles of the latter by gas
chromatography-electron-capture mass spectrometry
721(1996)289

Derivatization, electrophoresis

Selective determination of peptides containing specific amino
acid residues by high-performance liquid chromatography and
capillary electrophoresis 704(1995)27

Direct and indirect chiral separation of amino acids by capillary
electrophoresis 704(1995)179

Free-solution capillary electrophoretic resolution of chiral amino
acids via derivatization with homochiral isothiocyanates. Part I
707(1995)355

Diode laser-induced fluorescence detection in capillary
electrophoresis after pre-column derivatization of amino acids
and small peptides 708(1995)309

Separation of precolumn-labelled D- and L-amino acids by
micellar electrokinetic chromatography with UV and
fluorescence detection 708(1995)323

Determination of chiral reagent purity by capillary
electrophoresis 715(1995)151

Separation of formoterol enantiomers and detection of
zeptomolar amounts by capillary electrophoresis using laser-
induced fluorescence 715(1995)159

Precolumn derivatization of proteins to enhance detection
sensitivity for sodium dodecyl sulfate non-gel sieving capillary
electrophoresis 715(1995)167

Post-column reaction system for fluorescence detection in
capillary electrophoresis 716(1995)123

Nanomolar determination of aminated sugars by capillary
electrophoresis 716(1995)221

Separation of 8-aminonaphthalene-1,3,6-trisulfonic acid-labelled
neutral and sialylated N-linked complex oligosaccharides by
capillary electrophoresis 716(1995)241

Determination of α -difluoromethylornithine in blood by
microdialysis sampling and capillary electrophoresis with UV
detection 716(1995)381

Derivatization of dipeptides with 4-fluoro-7-nitro-2,1,3-
benzoxadiazole for laser-induced fluorescence and separation by
micellar electrokinetic chromatography 716(1995)389

Trace analysis of fluorescein-derivatized phenoxy acid
herbicides by micellar electrokinetic chromatography with laser-
induced fluorescence detection 717(1995)299

Fluorophore-assisted carbohydrate electrophoresis in the
separation, analysis, and sequencing of carbohydrates
720(1996)295

Separation of negatively charged carbohydrates by capillary
electrophoresis 720(1996)323

Detection of carbohydrates in capillary electrophoresis 720(1996)353

Capillary electrophoresis and ¹H NMR studies on chiral recognition of atropisomeric binaphthyl derivatives by cyclodextrin hosts 732(1996)143

Postcolumn reactor in capillary electrophoresis for laser-induced fluorescence detection 734(1996)331

Capillary electrophoresis–laser-induced fluorescence detection of amphetamine in the brain 735(1996)263

Derivatization at capillary inlet in high-performance capillary electrophoresis 742(1996)243

Preconcentration and microreaction technology on-line with capillary electrophoresis (Review) 744(1996)3

Separation of biogenic amines by micellar electrokinetic chromatography 745(1996)255

Reductive amination of N-linked oligosaccharides using organic acid catalysts 745(1996)273

Argon-laser-induced fluorescence detection in sodium dodecyl sulfate-capillary gel electrophoretic separations of proteins 746(1996)109

Derivatization, GC

Endogenous alkaloids in man. XXI. Analysis of glyoxylate-derived 1,3-thiazolidines and their precursors after trimethylsilylation by gas chromatography–mass spectrometry 707(1995)267

Determination of aliphatic aldehydes as their thiazolidine derivatives in foods by gas chromatography with flame photometric detection 709(1995)303

Atomic emission detection for the quantitation of trimethylsilyl derivatives of chemical-warfare-agent related compounds in environmental samples 709(1995)333

Determination of aldehydes in basic medium by gas chromatography using O-benzylhydroxylamine derivatization 709(1995)387

Pentafluorobenzyl derivatives for the gas chromatographic determination of hydroxy-polycyclic aromatic hydrocarbons in urban aerosols 710(1995)139

Derivatization and chromatographic determination of aldehydes in gaseous and air samples 710(1995)159

Quantitative analysis of fluorinated ethylchloroformate derivatives of non-protein amino acids using positive and negative chemical ionization gas chromatography–mass spectrometry 710(1995)303

Gas chromatographic–mass spectrometric characterization of some fatty acids from white and interior spruce 715(1995)317

Gas chromatographic determination and gas chromatographic–mass spectrometric determination of dialkyl phosphates via extractive pentafluorobenzoylation using a polymeric phase-transfer catalyst 718(1995)383

Analysis of chlorinated acetic and propionic acids as their pentafluorobenzyl derivatives. I. Preparation of the derivatives 718(1995)391

Derivatization of 10-chloro-5,10-dihydrophenarsazine (Adamsite) for gas chromatographic analysis 719(1996)401

Simultaneous quantitation of lauric acid and ethyl laureate in *Sabal serrulata* by capillary gas chromatography and derivatisation with trimethyl sulphoniumhydroxide 719(1996)479

Recent progress in the analysis of sugar monomers from complex matrices using chromatography in conjunction with mass spectrometry or stand-alone tandem mass spectrometry 720(1996)51

Determination of chlorophenols at the sub-ppb level in tap water using derivatization, solid-phase extraction and gas chromatography with plasma atomic emission detection 721(1996)297

Gas chromatographic amino acid profiling of wine samples for pattern recognition 722(1996)303

Selective determination of volatile N-nitrosamines by derivatization with diethyl chlorothiophosphate and gas chromatography with flame photometric detection 723(1996)93

Determination of daminozide residues in apples using gas chromatography with nitrogen–phosphorus detection 723(1996)355

Gas chromatographic analysis of 3-amino-1-hydroxypropylidene-1,1-bisphosphonate and related bisphosphonate as their N-isobutoxycarbonyl methyl ester derivatives 724(1996)279

New, stable halogenated derivative suitable for the gas chromatographic determination of muramic acid 726(1996)246

Simple and rapid determination of the herbicides glyphosate and glufosinate in river water, soil and carrot samples by gas chromatography with flame photometric detection 726(1996)253

Capillary gas chromatography of higher alkylpolyoxyethylene glycols with an even number of carbon atoms in the alkyl group. Influence of type of derivatizing agent, alcohol chain length and oxyethylene chain length on the retention indices with a linear temperature increase 727(1996)131

Gas chromatographic–mass spectrometric approach to the problem of characterizing binding media in paintings 731(1996)237

Trace level determination of iodide, iodine and iodate by gas chromatography–mass spectrometry 732(1996)327

Derivatization reactions for the determination of amines by gas chromatography and their applications in environmental analysis 733(1996)19

Gas chromatographic determination of acid herbicides in surface water samples with electron-capture detection and mass spectrometric confirmation 733(1996)361

Direct on-column derivatisation in gas chromatography 738(1996)43

Direct on-column derivatisation in gas chromatography 738(1996)57

Determination of aromatic amines as their N-dimethylthiophosphoryl derivatives by gas chromatography with flame photometric detection 738(1996)83

New gas chromatographic–electron-capture detection method for the determination of atmospheric aldehydes and ketones based on cartridge sampling and derivatization with 2,4,6-trichlorophenylhydrazine 740(1996)71

Optimization of solid-phase extraction method for analysis of low-ppb amounts of aldehydes-ozonation by-products 749(1996)157

Simultaneous determination of chlorophenols, chlorobenzenes and chlorobenzoates in microbial solutions using pentafluorobenzylbromide derivatization and analysis by gas chromatography with electron-capture detection 749(1996)165

Fat content for nutritional labeling by supercritical fluid extraction and an on-line lipase catalyzed reaction 750(1996)201

Identification of disaccharides by gas chromatography–Fourier transform infrared spectroscopy 750(1996)311

Determination of butyl- and phenyltin compounds in biological material by gas chromatography–flame photometric detection after ethylation with sodium tetraethylborate 750(1996)317

Derivatization, LC

Monitoring of optical isomers of some conformationally constrained amino acids with tetrahydroisoquinoline or tetraline ring structures. Part II 705(1995)257

Peptide chiral purity determination: hydrolysis in deuterated acid, derivatization with Marfey's reagent and analysis using high-performance liquid chromatography–electrospray ionization–mass spectrometry 707(1995)233

Determination of biogenic amines and their precursor amino acids in wines of the Vallée du Rhône by high-performance liquid chromatography with precolumn derivatization and fluorimetric detection 707(1995)373

Optimization of the determination of amino acids in parenteral solutions by high-performance liquid chromatography with precolumn derivatization using 9-fluorenylmethyl chloroformate 708(1995)203

Highly sensitive high-performance liquid chromatographic method to discriminate enantiomeric monoacylglycerols based on fluorescent chiral derivatization with (*S*)-(+)-2-*tert*-butyl-2-methyl-1,3-benzodioxole-4-carboxylic acid 709(1995)375

Separation of ³²P-labeled 3',5'-bisphosphate nucleotides of polycyclic aromatic hydrocarbon *anti*-diol-epoxides and derivatives 710(1995)149

Derivatization and chromatographic determination of aldehydes in gaseous and air samples 710(1995)159

Chemically removable derivatization reagent for liquid chromatography. I. 2-(*N*-Phthalimido)ethyl 2-(dimethylamino)ethanesulfonate 710(1995)267

Enantiomeric resolution of derivatized DL-amino acids by high-performance liquid chromatography using a β -cyclodextrin chiral stationary phase: A comparison between derivatization labels 710(1995)287

High-performance liquid chromatographic method for the separation of the optical isomers of γ,γ' -di-*tert*-butyl-D,L- γ -carboxyglutamic acid and D,L- γ -carboxyglutamic acid 710(1995)297

Liquid chromatographic determination of D- and L-amino acids by derivatization with *o*-phthaldialdehyde and N-isobutyryl-L-cysteine. Applications with reference to the analysis of peptidic antibiotics, toxins, drugs and pharmaceutically used amino acids 711(1995)201

Lipopolysaccharide determination by reversed-phase high-performance liquid chromatography after fluorescence labeling 711(1995)277

Simultaneous determination of amino acids and biogenic amines by reversed-phase high-performance liquid chromatography of the dabsyl derivatives 715(1995)67

Acenaphthene fluorescence derivatisation reagents for use in high-performance liquid chromatography 715(1995)201

High-performance liquid chromatographic separation and detection of phenols using 2-(9-anthrylethyl) chloroformate as a fluorophoric derivatizing reagent 718(1995)45

Improvement of a solid-phase extraction method for determining biogenic amines in wines 718(1995)309

Rapid identification of biogenic amine-producing bacterial cultures using isocratic high-performance liquid chromatography 719(1996)321

- Amino acid and amino sugar determination by derivatization with 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate followed by high-performance liquid chromatography and fluorescence detection 719(1996)171
- Determination of 4-hydroxy-2-nonenal by precolumn derivatization and liquid chromatography with laser fluorescence detection 719(1996)450
- Postcolumn derivatization for chromatographic analysis of carbohydrates 720(1996)183
- Determination of N-nitrosodiethanolamine as nitrite in ethanolamine derivative raw materials by high-performance liquid chromatography with fluorescence detection after alkaline denitrosation 721(1996)75
- Determination of dimethylamine in groundwater by liquid chromatography and precolumn derivatization with 9-fluorenylmethylchloroformate 721(1996)231
- Determination of mono-, poly- and hydroxy-carboxylic acid profiles of beverages as their 2-nitrophenylhydrazides by reversed-phase ion-pair chromatography 721(1996)261
- Liquid chromatographic determination of okadaic acid and dinophysistoxin-1 in shellfish after derivatization with 9-chloromethylanthracene 721(1996)359
- Improved high-performance liquid chromatography of amino acids derivatised with 9-fluorenylmethyl chloroformate 723(1996)219
- Selectable-power photoreactor for flow-injection analysis systems and high-performance liquid chromatography post-column photochemical derivatization 724(1996)55
- Determination of alcohols by high-performance liquid chromatography with fluorimetric detection after precolumn derivatization with 2-(4-carboxyphenyl)-6-methoxybenzofuran 724(1996)107
- Quantitation of choline glycerophospholipids that contain carboxylate residues by fluorometric high-performance liquid chromatography 724(1996)131
- Electrochemical activity of 6-aminoquinolyl urea derivatives of amino acids and peptides. 724(1996)147
- Determination of amino acids using *o*-phthalaldehyde-2-mercaptoethanol derivatization 724(1996)159
- Determination of amino acids by pre-column fluorescence derivatization with 1-methoxycarbonylindolizine-3,5-dicarbaldehyde 724(1996)169
- Chloroformates and isothiocyanates derived from 2-arylpropionic acids as chiral reagents: synthetic routes and chromatographic behaviour of the derivatives 725(1996)323
- Determination of sulphonamides in foods by liquid chromatography with postcolumn fluorescence derivatization 726(1996)125
- High-sensitivity fluorescence derivatization for the determination of hydroxy compounds in aqueous solution by high-performance liquid chromatography 728(1996)333
- Analysis of the 9-fluorenylmethoxycarbonyl hydrazide labelling of neutral and sialic acid-containing oligosaccharides by reversed-phase high-performance liquid chromatography 728(1996)343
- Liquid chromatographic separation of amino acid enantiomers on a silica-bonded chiral *s*-triazine column 728(1996)447
- Separation of enantiomeric β -methyl amino acids and of β -methyl amino acid containing peptides 728(1996)455
- Synthesis and application of a new isothiocyanate as a chiral derivatizing agent for the indirect resolution of chiral amino alcohols and amines 729(1996)33
- Fluorimetric method of analysis for D-norpseudoephedrine hydrochloride, glycine and L-glutamic acid by reversed-phase high-performance liquid chromatography 729(1996)287
- Determination of ethambutol in human plasma and urine by high-performance liquid chromatography with fluorescence detection 729(1996)301
- Stereoselective determination of unchanged and glucuroconjugated eliprodil, a new anti-ischaemic drug, in human plasma and urine by precolumn derivatization and column-switching high-performance liquid chromatography with fluorescence detection 729(1996)323
- Application of high-performance liquid chromatography with diode-array detection and on-line post-column photochemical derivatization to the determination of analgesics 729(1996)355
- Simple and sensitive multi-sugar-probe gut permeability test by high-performance liquid chromatography with fluorescence labelling 730(1996)99
- High-performance liquid chromatographic analysis of hexosamines, hexosaminotols, N-acetylhexosamines and N-acetylhexosaminotols by ultraviolet and fluorescence detection at picomole levels 730(1996)107
- Determination of the mycotoxin moniliformin in cereals by high-performance liquid chromatography and fluorescence detection 732(1996)291
- Precolumn fluorescence derivatization of the antagonist [Arg⁶, D-Trp^{7,9}, MePhe⁸]-Substance P{6-11} with benzoin in high-performance liquid chromatography and selective detection of arginine-containing fragments in its degradation products 736(1996)91

- Ion chromatographic speciation of chromium with diphenylcarbazide-based spectrophotometric detection 736(1996)141
- Determination of biogenic amines in wine after precolumn derivatization with 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate 737(1996)205
- Application of thermal lens spectrometric detection to the determination of heavy metals by ion chromatography 739(1996)111
- Determination of heavy metals in air particulate matter by ion chromatography 739(1996)233
- Ion chromatographic determination of chelating ligands based on the postcolumn formation of ternary fluorescent complexes 739(1996)307
- Separation and determination of amino acids, creatinine, bioactive amines and nucleic acid bases by dual-mode gradient ion-pair chromatography 739(1996)333
- Chromatographic determination of amino acids by pre-column derivatization using 1,2-naphthoquinone-4-sulfonate as reagent 740(1996)21
- Determination of amino acids in the foods by reversed-phase high-performance liquid chromatography with a new precolumn derivative, butylthiocarbamyl amino acid, compared to the conventional phenylthiocarbamyl derivatives and ion-exchange chromatography 740(1996)31
- Determination of protein amino acids as benzylthiocarbamyl derivatives compared with phenylthiocarbamyl derivatives by reversed-phase high-performance liquid chromatography, ultraviolet detection and precolumn derivatization 740(1996)41
- Trifluoromethanesulfonic acid as a catalyst for the formation of dansylhydrazone derivatives 740(1996)279
- Simultaneous solvent extraction and high-performance liquid chromatographic determination of uranium, iron, nickel and copper in mineral ore samples and phosphate rock residues using N,N'-ethylenebis(salicylaldimine) as complexing reagent 740(1996)296
- Determination of bromide in complex matrices by pre-column derivatization linked to solid-phase extraction and high-performance liquid chromatography 746(1996)31
- Liquid chromatographic determination of gallium and indium with fluorimetric detection 746(1996)239
- Mechanistic aspects of fatty acid retention in silver ion chromatography 749(1996)47
- Integrated derivatization-chemiluminescence detection system for the determination of β -carboline alkaloids by high-performance liquid chromatography 749(1996)73
- Quantification of cyclamate and cyclohexylamine in urine samples using high-performance liquid chromatography with trinitrobenzenesulfonic acid pre-column derivatization 750(1996)397
- Derivatization, supercritical fluid extraction**
Determination of pentachlorophenol in leather using supercritical fluid extraction with in situ derivatization 718(1995)131
- Derringer's desirability function**
Application of Derringer's desirability function for the selection of optimum separation conditions in capillary zone electrophoresis 740(1996)109
- Desirability functions**
Method to study the separation of eight *p*-hydroxybenzoic esters by gas chromatography 727(1996)93
- Desorption**
Sampling and analysis of 1,3-butadiene in air by gas chromatography on a porous-layer open-tubular fused-silica column 710(1995)237
- Determination of benzene and alkylated benzenes in ambient and exhaled air by microwave desorption coupled with gas chromatography-mass spectrometry 719(1996)383
- Optimizing split/splitless injection port parameters for solid-phase microextraction 740(1996)139
- Desulfuration**
Capillary electrophoretic determination of degradation products of nitrilotriacetic acid used as a complexing agent in a desulfuration process 717(1995)351
- Detection, electrophoresis**
Determination of sugars by capillary electrophoresis with electrochemical detection using cuprous oxide modified electrodes 707(1995)335
- Diode laser-induced fluorescence detection in capillary electrophoresis after pre-column derivatization of amino acids and small peptides 708(1995)309
- Capillary electrophoresis device with double UV detection and its application to the determination of effective mobilities of peptides 709(1995)31
- Galvanic decoupling of a postcolumn amperometric detector in capillary electrophoresis 709(1995)69
- Modification of a tunable UV-visible capillary electrophoresis detector for simultaneous absorbance and fluorescence detection: profiling of body fluids for drugs and endogenous compounds 709(1995)147
- Indirect fluorescence detection of free cyanide and related compounds by capillary electrophoresis 709(1995)367
- Capillary zone electrophoresis with indirect UV detection applying a UV-absorbing counter ion 716(1995)115

- Pre-column derivatization of proteins to enhance detection sensitivity for sodium dodecyl sulfate non-gel sieving capillary electrophoresis 715(1995)167
- Determination of aminopyrine and its metabolite by capillary electrophoresis–electrochemical detection 715(1995)355
- Integrated optical detection cell based on Bragg reflecting waveguides 716(1995)135
- Determination of thiols by capillary electrophoresis with electrochemical detection using a palladium field-decoupler and chemically modified electrodes 716(1995)347
- Trace analysis of fluorescein-derivatized phenoxy acid herbicides by micellar electrokinetic chromatography with laser-induced fluorescence detection 717(1995)299
- Ball-lens laser-induced fluorescence detector as an easy-to-use highly sensitive detector for capillary electrophoresis. Application to the identification of biogenic amines in dairy products 717(1995)335
- Capillary electrophoresis of inorganic anions and organic acids using suppressed conductivity detection. Strategies for selectivity control 717(1995)371
- Simple double-beam absorption detection systems for capillary electrophoresis based on diode lasers and light-emitting diodes 718(1995)177
- Detection of carbohydrates in capillary electrophoresis 720(1996)353
- Sensitivity enhancement effect in off-column detection for capillary electrophoresis 726(1996)205
- Micellar electrokinetic capillary chromatography of high explosives utilising indirect fluorescence detection 726(1996)211
- Element-sensitive X-ray detection for capillary electrophoresis 727(1996)301
- Time-resolved photon-counting fluorimetry with a semiconductor laser for capillary electrophoresis 727(1996)330
- Capillary column high-performance liquid chromatographic–electrospray ionization triple-stage quadrupole mass spectrometric analysis of proteins separated by two-dimensional polyacrylamide gel electrophoresis. Application to cerebellar protein mapping 730(1996)279
- Postcolumn reactor in capillary electrophoresis for laser-induced fluorescence detection 734(1996)331
- Capillary electrophoresis with detection by inverse UV spectroscopy and electrospray mass spectrometry for the examination of quaternary ammonium herbicides 734(1996)339
- Application of capillary electrophoresis and related techniques to drug metabolism studies 735(1996)415
- Evaluation of extended light path capillaries for use in capillary electrophoresis with laser-induced fluorescence detection 736(1996)239
- Indirect chemiluminescence detection of amino acids separated by capillary electrophoresis 736(1996)247
- Optimization of indirect ultraviolet detection in high-performance liquid chromatography and capillary electrophoresis 738(1996)11
- Capillary electrophoresis of cationic surfactants with tetrazolium violet and of anionic surfactants with adenosine monophosphate and indirect photometric detection 739(1996)405
- Improved end-column amperometric detection for capillary electrophoresis 742(1996)229
- Application of an avalanche photodiode in a near-Geiger operation as a fluorescence detector for capillary electrophoresis 744(1996)31
- Laser induced resonance energy transfer – a novel approach towards achieving high sensitivity in capillary electrophoresis 744(1996)37
- Origin and correction of bias caused by sample injection and detection in capillary zone electrophoresis 744(1996)103
- Fluorescence-based polymerase chain reaction–single-strand conformation polymorphism analysis of p53 gene by capillary electrophoresis 744(1996)311
- Separation of biogenic amines by micellar electrokinetic chromatography 745(1996)255
- Reductive amination of N-linked oligosaccharides using organic acid catalysts 745(1996)273
- Argon-laser-induced fluorescence detection in sodium dodecyl sulfate-capillary gel electrophoretic separations of proteins 746(1996)109
- Capillary electrophoresis of triorganotin compounds with indirect fluorescence detection 746(1996)269
- Hyphenation of capillary electrophoresis to inductively coupled plasma mass spectrometry as an element-specific detection method for metal speciation 750(1996)51

Detection, GC

Multispectral detection for gas chromatography 703(1995)335

Comparison of direct deposition and flow-cell gas chromatography–Fourier transform infrared spectrometry of barbiturates 703(1995)383

Investigation of the use of oxygen doping of the electron-capture detection for determination of atmospheric halocarbons 707(1995)255

Thermal desorption–gas chromatography–mass spectrometry–flame ionization detection–sniffer multi-coupling: A device for the determination of odorous volatile organic compounds in air 708(1995)105

Atomic emission detection for the quantitation of trimethylsilyl derivatives of chemical-warfare-agent related compounds in environmental samples 709(1995)333

Detection methods for the analysis of biogenic non-methane hydrocarbons in air 710(1995)39

Assessment of some possibilities for improving the performance of gas chromatographic thermal conductivity detectors with hot-wire sensitive elements 715(1995)287

Pyrolysis–gas chromatography applied to the study of organic matter evolution in sewage sludge-amended soils using nitrogen–phosphorus, flame ionization and mass spectrometric detection 719(1996)131

Phase-shift-free subtraction chromatograms from a dual-channel detector 719(1996)468

Determination of chlorophenols at the sub-ppb level in tap water using derivatization, solid-phase extraction and gas chromatography with plasma atomic emission detection 721(1996)297

Converting a single-channel flame photometric detector to triple-channel operation 721(1996)365

Characterization of a gas chromatographic surface ionization detector based upon hyperthermal positive surface ionization 722(1996)169

Windowless pulsed-discharge photoionization detector. Application to qualitative analysis of volatile organic compounds 724(1996)235

Analyte noise in the flame photometric detector 724(1996)251

Time-integrated spectra from a flame photometric detector 724(1996)255

Simple method of electron capture detector calibration for quantitative measurements of F-11 and F-12 freons in the atmosphere 724(1996)265

Quantitation of perfectly co-eluting analytes on dual-channel-subtraction chromatograms 727(1996)101

Optimization study for the speciation analysis of organotin and organogermanium compounds by on-column capillary gas chromatography with flame photometric detection using quartz surface-induced luminescence 727(1996)119

Design and optimization of a novel type nitrogen–phosphorus detector for capillary gas chromatography 732(1996)51

Analysis of structural isomers of polychlorinated phenols in water by liquid-nitrogen-trapping gas chromatography–Fourier transform infrared spectroscopy 733(1996)405

Dual-channel flame photometric detector for sensitive spectrum acquisition and variable-wavelength operation 734(1996)405

Calculation of elemental ratios by on-column radiofrequency plasma atomic emission detection coupled with capillary gas chromatography 736(1996)157

Correlation chromatograms from a triple-detector system 737(1996)223

Gas chromatographic system equipped with a mass detector and a selective nitrogen–phosphorous detector operating simultaneously in the analysis of pesticide residues 740(1996)263

Destruction of halogenated methanes by non-electron capture processes within an electron capture detector 742(1996)135

Filterless, full spectral range, compound-specific detection in dual-channel photometry 742(1996)143

Identification of compounds relevant to the chemical weapons convention using selective gas chromatography detectors, gas chromatography–mass spectrometry and gas chromatography–Fourier transform infrared spectroscopy in an international trial proficiency test 742(1996)191

Analysis of the possibility of SF₆ detection by a solute switching method with a modulator containing a ⁶³Ni source 743(1996)301

Accurate spectral scans of single chromatographic peaks 746(1996)43

Relative responses of various classes of compounds using a pulsed discharge helium photoionization detector. Experimental determination and theoretical calculations 749(1996)131

Experimental and theoretical relative response factors for a pulsed discharge krypton photoionization detector 749(1996)149

Comparison of the possibilities of gas chromatography–mass spectrometry and tandem mass spectrometry systems for the analysis of anabolics in biological material 750(1996)105

Surface ionization detector with a supersonic free jet for gas chromatography 750(1996)335

Pesticide residue analysis in foodstuffs applying capillary gas chromatography with atomic emission detection. State-of-the-art use of modified multimethod S19 of the Deutsche Forschungsgemeinschaft and automated large-volume injection with programmed-temperature vaporization and solvent venting 750(1996)369

Detection, LC

Biospecific detection in liquid chromatography 703(1995)191

Laser-induced fluorescence detection of native-fluorescent analytes in column liquid chromatography, a critical evaluation 704(1995)1

Optimization of a modified electrode for the sensitive and selective detection of α -dipeptides 705(1995)171

On-line thermal lens spectrometric detection of Cr(III) and Cr(VI) after separation by ion chromatography 706(1995)121

Improved electrochemical detection of diuretics in high-performance liquid chromatographic analysis by postcolumn on-line photolysis 709(1995)257

Application of a new atmospheric pressure ionization source for double focusing sector instruments 712(1995)3

Effect of ion source pressure on ion formation of carbamates in particle-beam chemical-ionisation mass spectrometry 712(1995)21

Determination of an endothelin receptor antagonist in human plasma by narrow-bore liquid chromatography and ionspray tandem mass spectrometry 712(1995)75

Chromium speciation by anion-exchange high-performance liquid chromatography with both inductively coupled plasma atomic emission spectroscopic and inductively coupled plasma mass spectrometric detection 712(1995)311

Determination of hydroxy-substituted polycyclic aromatic hydrocarbons by high-performance liquid chromatography with electrochemical detection 715(1995)41

Determination of alendronate sodium by ion chromatography with refractive index detection 719(1996)345

Copper electrodes for stable subpicomole detection of carbohydrates in high-performance liquid chromatography 721(1996)53

Simultaneous determination of α -tocopherol and α -tocopherolquinone by high-performance liquid chromatography and coulometric detection in the redox mode 722(1996)287

Study of a new solid carbon paste tyrosinase-modified amperometric biosensor for the determination of catecholamines by high-performance liquid chromatography 727(1996)47

Novel approach to the measurement of enantiomeric purity by high-performance liquid chromatography using a polarized photometric detector equipped with a split cell 727(1996)55

Analysis of N-nitrosamines by high-performance liquid chromatography with post-column photohydrolysis and colorimetric detection 727(1996)83

Simultaneous high-performance liquid chromatographic determination of ochratoxin A and citrinin in cheese by time-resolved luminescence using terbium 727(1996)185

High-sensitivity conductivity detection in non-suppressed ion chromatography using sulfoisophthalic acid as eluent 727(1996)311

Determination of illicit drugs and related substances by high-performance liquid chromatography with an electrochemical coulometric-array detector 729(1996)273

High-performance liquid chromatography with electrochemical detection of aspartame with a post-column photochemical reactor 729(1996)393

High-performance liquid chromatographic analysis of hexosamines, hexosaminitols, N-acetylhexosamines and N-acetylhexosaminitols by ultraviolet and fluorescence detection at picomole levels 730(1996)107

High-performance liquid chromatographic analysis with electrochemical detection for residues of explosives in water samples around a former ammunition plant 730(1996)161

Determination of polycyclic aromatic hydrocarbons in water samples using high-performance liquid chromatography with amperometric detection 730(1996)169

Element- and isotope-specific detection for high-performance liquid chromatography using chemical reaction interface mass spectrometry 732(1996)189

High-performance liquid chromatographic analysis of mupirocin in polyethylene glycols 400 and 3350 using dual ultraviolet and evaporative light scattering detection 732(1996)399

Postcolumn chemiluminescence, ultraviolet and evaporative light-scattering detectors in high-performance liquid chromatographic determination of triacylglycerol oxidation products 734(1996)221

Direct comparison of evaporative light-scattering and condensation nucleation light-scattering detection for liquid chromatography 736(1996)11

Evaluation of the potential usefulness of in situ fiber optic sensors for column monitoring in chromatographic separations and purifications 736(1996)51

In-column versus on-column fluorescence detection in capillary electrochromatography 737(1996)171

Optimization of indirect ultraviolet detection in high-performance liquid chromatography and capillary electrophoresis 738(1996)11

Application of thermal lens spectrometric detection to the determination of heavy metals by ion chromatography 739(1996)111

Absolute on-line molecular mass analysis of basic fibroblast growth factor and its multimers by reversed-phase liquid chromatography with multi-angle laser light scattering detection 740(1996)215

High-performance liquid chromatography and detection of polyethers and their mono(carboxy)alkyl and -arylalkyl substituted derivatives (Review) 742(1996)1

Peptide content determination of crude synthetic peptides by reversed-phase liquid chromatography and nitrogen-specific detection with a chemiluminescent nitrogen detector 743(1996)85

Immunochemical analysis of bovine growth hormone releasing factor involving reversed-phase high-performance liquid chromatography-immunodetection 743(1996)181

Integrated derivatization-chemiluminescence detection system for the determination of β -carboline alkaloids by high-performance liquid chromatography 749(1996)73

Application of on-line capillary high-performance liquid chromatography-nuclear magnetic resonance spectrometry coupling for the analysis of vitamin A derivatives 750(1996)303

Detection, SFC

Performance characteristics of a real-time direct deposition supercritical fluid chromatography-Fourier transform infrared spectrophotometry system 703(1995)503

Optimization of electron-capture detector when using packed-column supercritical fluid chromatography with modified carbon dioxide 723(1996)361

Feasibility of supercritical fluid chromatography-chemiluminescent nitrogen detection with open tubular columns 734(1996)303

Detection, TLC

Thin-layer chromatography with chemiluminescent detection of enhancers of the luminol-H₂O₂-peroxidase system 724(1996)411

Effect of fluorescence intensifiers on the fluorodensitometric determination of flavones and flavonols after detection with diphenylboric acid 2-aminoethyl ester 740(1996)99

Toxicological evaluation of harmful substances by in situ enzymatic and biological detection in high-performance thin-layer chromatography 750(1996)403

Detection limits

Significant reduction of the detection limit in ion chromatography by relative analyte enrichment with column switching 723(1996)11

Estimate of gas chromatographic blanks 726(1996)133

Detection, unified chromatography

Principles and applications of unified chromatography 703(1995)17

Deuterium-hydrogen exchange

Studies of hydrogen/deuterium exchange of monodeuteriophenol in fused-silica capillary columns using gas chromatography-mass spectrometry 719(1996)474

Dextran-coated zirconia

Synthesis and chromatographic characterization of dextran-coated zirconia high-performance liquid chromatographic stationary phases 746(1996)199

Dialysis

On-line dialysis with high-performance liquid chromatography for the automated preparation and analysis of sugars and organic acids in foods and beverages 705(1995)195

Automated determination of verapamil and norverapamil in human plasma with on-line coupling of dialysis to high-performance liquid chromatography and fluorometric detection 750(1996)351

Diarrhetic shellfish poisoning

Fluorimetric determination of diarrhetic shellfish toxins in scallops and mussels by high-performance liquid chromatography 729(1996)381

Automatic high-performance liquid chromatographic method for the determination of diarrhetic shellfish poison 729(1996)387

Isolation of dinophysistoxin-2 and the high-performance liquid chromatographic analysis of diarrhetic shellfish toxins using derivatisation with 1-bromoacetylpyrene 749(1996)33

Diastereomer separation

Endogenous alkaloids in man. XXI. Analysis of glyoxylate-derived 1,3-thiazolidines and their precursors after trimethylsilylation by gas chromatography-mass spectrometry 707(1995)267

Separation of diastereomers by capillary zone electrophoresis in free solution with polymer additive and organic solvent component. Effect of pH and solvent composition 719(1996)411

Preparative separation of the diastereomers of methyl branched-chain phosphatidylcholines 724(1996)367

Hydrophilic interaction chromatography on amino-silica phases complements reversed-phase high-performance liquid chromatography and capillary electrophoresis for peptide analysis 724(1996)378

Liquid chromatographic separation of amino acid enantiomers on a silica-bonded chiral *s*-triazine column 728(1996)447

Preparative isolation of the eutomer of cyclothiazide by high-performance liquid chromatography on a cellulose-derived chiral stationary phase with toluene-acetone as the mobile phase 729(1996)29

Use of cyclodextrins in the capillary electrophoretic separation of *erythro*- and *threo*-mefloquine enantiomers 745(1996)17

DID model

Buffer effects in the desionoselective/ionoselective/duoselective separation selectivity model-assisted optimization of the capillary electrophoretic separation of enantiomers. I. Low-pH phosphate buffers 716(1995)197

Diesel exhaust

Application of radio-chromatographic techniques to diesel emissions research 737(1996)181

Diesel fuel

Liquid chromatographic method for analysing the colour marker Solvent Yellow 124, N-ethyl-N-[2-(1-isobutoxyethoxy)ethyl](4-phenylazophenyl)amine, in diesel fuels 723(1996)395

Differential chromatography

Nuclear magnetic resonance and the design of chromatographic separations 707(1995)45

Diffusion

Dynamic modeling of electrophoretically mediated microanalysis 732(1996)119

Diffusion, electrophoresis

Diffusive analyte loss in capillary electrophoresis caused by delay in field application 732(1996)335

Diffusion coefficients

Nuclear magnetic resonance and the design of chromatographic separations 707(1995)45

Diffusive particles

Effects of structural and kinetic parameters on the performance of chromatographic columns packed with perfusive and purely diffusive adsorbent particles 743(1996)3

Diffusive samplers, thick bed

Computer program for simulating the performance of thick-bed diffusive samplers: predicted and experimental sample loss due to reversible adsorption 709(1995)283

Diffusive sampling

Laboratory validation of a diffusive sampler for the determination of glutaraldehyde in air 710(1995)175

Digitalis lanata

Quantitative determination of cardiac glycosides in *Digitalis lanata* leaves by reversed-phase thin-layer chromatography 746(1996)255

Diode-array detection

Selected applications of the use of supercritical fluids in coupled systems 703(1995)467

Determination of polycyclic aromatic hydrocarbons in soil samples by micellar electrokinetic capillary chromatography with photodiode-array detection 717(1995)309

Spectroscopic characterization by photodiode array detection of human urinary and amniotic protein HC subpopulations fractionated by anion-exchange and size-exclusion high-performance liquid chromatography 719(1996)149

Development of a semi-automated high-performance liquid chromatographic-diode array detection system for screening pesticides at trace levels in aquatic systems of the Axios River basin 726(1996)99

Diode-laser-based detectors

Simple double-beam absorption detection systems for capillary electrophoresis based on diode lasers and light-emitting diodes 718(1995)177

Direct deposition interface

Comparison of direct deposition and flow-cell gas chromatography-Fourier transform infrared spectrometry of barbiturates 703(1995)383

Direct injection

Packed-column supercritical fluid chromatography of a new dihydropyridine drug based on direct injection of emulsion samples 749(1996)193

Discosporium populeum

Chromatographic and chemometric investigation of the chemical defence mechanism of poplar tree genotypes against a bark fungus parasite 715(1995)95

Discrimination analysis

Contribution of high-performance liquid chromatographic analysis of carbohydrates to authenticity testing of honey 706(1995)353

Dispersion

Influence of the concentration dependence of the mass transfer properties on the chromatographic band profiles 728(1996)15

Diffusive analyte loss in capillary electrophoresis caused by delay in field application 732(1996)335

Dispersion effects accompanying pressurized zone mobilisation in capillary isoelectric focusing of proteins 738(1996)123

Change of pH in electrophoretic zones as a cause of peak deformation 742(1996)211

Dispersion, hydrodynamic

Numerical simulation of hydrodynamic dispersion in random porous media 707(1995)35

Dispersion coefficients

Studies on the expansion characteristics of fluidised beds with silica-based adsorbents used in protein purification 743(1996)57

Dispersive effects

Rectangular capillary electrophoresis: study of some dispersive effects 737(1996)243

Displacement

Model for ion-exchange equilibria of macromolecules in preparative chromatography 702(1995)113

Displacement chromatography

Ion-exchange displacement chromatography of proteins. Dendritic polymers as novel displacers 702(1995)143

Antibiotics as low-molecular-mass displacers in ion-exchange displacement chromatography 707(1995)57

Non-linear waves in chromatography (Review) 734(1996)7

Displacement effects

Modeling non-linear elution of proteins in ion-exchange chromatography 702(1995)125

Displacers

Ion-exchange displacement chromatography of proteins. Dendritic polymers as novel displacers 702(1995)143

Antibiotics as low-molecular-mass displacers in ion-exchange displacement chromatography 707(1995)57

Investigation of chiral resolution using displacement interactions with polymer networks in capillary affinity zone electrophoresis 745(1996)1

Dissociation constants

Determination of acidity constants of monoprotic and diprotic acids by capillary electrophoresis 745(1996)117

Distance–time diagram

On non-linear waves in chromatography 734(1996)3

Distribution coefficients

Concentration dependence of the distribution coefficient of maltooligosaccharides on a cation-exchange resin 708(1995)177

Adsorption isotherms in protein chromatography. Combined influence of protein and salt concentration on adsorption isotherm 734(1996)183

Micellar electrokinetic chromatography. Perspectives in drug analysis 735(1996)3

DNA sequencing

DNA sequence analysis of *Prinker*-modified restriction fragments after collection from capillary electrophoresis with replaceable matrices 744(1996)303

cDNA–silica

Hybrid selection with cDNA–silica 742(1996)87

Donor–acceptor complex chromatography

Determination of polycyclic aromatic hydrocarbons in edible oils and fats by on-line donor–acceptor complex chromatography and high-performance liquid chromatography with fluorescence detection 750(1996)263

Downstream processing

Validation studies in the regeneration of ion-exchange celluloses 702(1995)59

Antibiotics as low-molecular-mass displacers in ion-exchange displacement chromatography 707(1995)57

Biomimetic dye affinity chromatography for the purification of bovine heart lactate dehydrogenase 718(1995)35

Down's syndrome

Gene dosage in capillary electrophoresis: pre-natal diagnosis of Down's syndrome 718(1995)405

Drug development

Importance of stereospecific bioanalytical monitoring in drug development 719(1996)3

Drug metabolism

Application of capillary electrophoresis and related techniques to drug metabolism studies 735(1996)415

Drug monitoring

Stepwise binary gradient high-performance liquid chromatographic system for routine drug monitoring 728(1996)307

Drug-related impurities

Determination of drug-related impurities by capillary electrophoresis 735(1996)43

Drug screening

Comparison of four homologous retention index standard series for qualitative gas chromatography of nitrogenous acidic and neutral drugs 738(1996)233

Drug transport

Immobilized-artificial-membrane chromatography: measurements of membrane partition coefficient and predicting drug membrane permeability 728(1996)113

Drying methods

Optimization of a drying method for filtered suspended solids from natural waters for supercritical fluid extraction analysis of hydrophobic organic compounds 738(1996)253

Dual-channel luminescence detector

Quantitation of perfectly co-eluting analytes on dual-channel-subtraction chromatograms 727(1996)101

Dual-channel photometry

Filterless, full spectral range, compound-specific detection in dual-channel photometry 742(1996)143

Dye-affinity chromatography

Polymer displacement in dye-affinity chromatography 710(1995)259

Biomimetic dye affinity chromatography for the purification of bovine heart lactate dehydrogenase 718(1995)35

Dye coatings

Comparison of the chelating ion exchange properties of dye coated cellulose and polystyrene substrates for the separation and determination of trace metals from aqueous media 739(1996)81

Dynamic axial compression

see Axial compression

Dynamic capacity

Influence of flow-rate on the chromatographic performance of agarose- and cellulose-based anion-exchange media 734(1996)137

Dynamic coupled column liquid chromatography

Study of aroma compound-natural polymer interactions by dynamic coupled column liquid chromatography 707(1995)181

E***Echinacea***

Solid-phase extraction and reversed-phase high-performance liquid chromatography of free phenolic acids in some *Echinacea* species 730(1996)25

Egg, spray-dried

Comparison of three methods for the determination of oxysterols in spray-dried egg 705(1995)289

Eggs

Determination of amino acids in the foods by reversed-phase high-performance liquid chromatography with a new precolumn derivative, butylthiocarbamyl amino acid, compared to the conventional phenylthiocarbamyl derivatives and ion-exchange chromatography 740(1996)31

Egg yolk

Egg yolk riboflavin binding protein as a new chiral stationary phase in high-performance liquid chromatography 704(1995)55

Electric double layer

Contribution of the electroosmotic flow to peak broadening in capillary zone electrophoresis with uniform zeta potential 709(1995)63

Electrochemical chromatography

Towards an electrochemically modulated chromatographic stationary phase 707(1995)29

Electrochemical detection

Optimization of a modified electrode for the sensitive and selective detection of α -dipeptides 705(1995)171

Determination of sugars by capillary electrophoresis with electrochemical detection using cuprous oxide modified electrodes 707(1995)335

Determination of aminopyrine and its metabolite by capillary electrophoresis-electrochemical detection 715(1995)355

Copper electrodes for stable subpicomole detection of carbohydrates in high-performance liquid chromatography 721(1996)53

Analysis of overlapped chromatographic peaks by multi-channel electrochemical detection 722(1996)151

Simultaneous determination of α -tocopherol and α -tocopherolquinone by high-performance liquid chromatography and coulometric detection in the redox mode 722(1996)287

Study of a new solid carbon paste tyrosinase-modified amperometric biosensor for the determination of catecholamines by high-performance liquid chromatography 727(1996)47

Determination of illicit drugs and related substances by high-performance liquid chromatography with an electrochemical coulometric-array detector 729(1996)273

High-performance liquid chromatography with electrochemical detection of aspartame with a post-column photochemical reactor 729(1996)393

Determination of phenols in environmental waters using liquid chromatography with electrochemical detection 731(1996)95

Improved end-column amperometric detection for capillary electrophoresis 742(1996)229

Electrochromatography

Electrochromatographic separation of proteins 707(1995)69

Capillary electrochromatography of small molecules in polyacrylamide gels with electroosmotic flow 716(1995)107

Evaluation of the parameters determining the performance of electrochromatography in packed capillary columns 716(1995)207

Capillary electrochromatography: operating characteristics and enantiomeric separations 723(1996)145

Automated capillary electrochromatography: reliability and reproducibility studies 725(1996)361

In-column versus on-column fluorescence detection in capillary electrochromatography 737(1996)171

Separation parameters via virtual migration distances in high-performance liquid chromatography, capillary zone electrophoresis and electrokinetic chromatography 743(1996)231

Capillary electrochromatography – a high-efficiency micro-separation technique 744(1996)63

Electrodes, pretreatment

Copper electrodes for stable subpicomole detection of carbohydrates in high-performance liquid chromatography 721(1996)53

Electroosmotic flow

Separation parameters via virtual migration distances in high-performance liquid chromatography, capillary zone electrophoresis and electrokinetic chromatography 743(1996)231

Electroextraction

Development of a needle device for on-line electroextraction-liquid chromatography 741(1996)13

Electrofocusing unit

Purification of α -L-arabinofuranosidase using a single-column mini-scale isoelectric focusing unit 705(1995)400

Electrokinetic chromatography

Polymer-supported pseudo-stationary phase for electrokinetic chromatography. Electrokinetic chromatography in a full range of methanol-water mixtures with alkylated starburst dendrimers 716(1995)57

Separation parameters via virtual migration distances in high-performance liquid chromatography, capillary zone electrophoresis and electrokinetic chromatography 743(1996)231

Electrolyte composition

Effect of the concentration of 18-crown-6 added to the electrolyte upon the separation of ammonium, alkali and alkaline-earth cations by capillary electrophoresis 706(1995)535

Determination of β -cyclodextrin inclusion complex constants for 3,4-dihydro-2-*H*-1-benzopyran enantiomers by capillary electrophoresis 707(1995)311

Capillary zone electrophoresis of serum proteins: study of separation variables 709(1995)99

Capillary zone electrophoretic separation of alkylbenzyl quaternary ammonium compounds: effect of organic modifier 722(1996)345

Electrolyte pH

Manipulation of separation selectivity for inorganic anions in capillary zone electrophoresis using control of electrolyte pH 734(1996)416

Electrolyte systems

Separation of alkali and alkaline-earth metal and ammonium cations by capillary electrophoresis using poly(ethylene glycol) and tartaric acid 742(1996)281

Electromigration

Dynamic modeling of electrophoretically mediated microanalysis 732(1996)119

Electromigration dispersion

Change of pH in electrophoretic zones as a cause of peak deformation 742(1996)211

Investigation of the use of oxygen doping of the electron-capture detection for determination of atmospheric halocarbons 707(1995)255

Optimization of electron-capture detector when using packed-column supercritical fluid chromatography with modified carbon dioxide 723(1996)361

Simple method of electron capture detector calibration for quantitative measurements of F-11 and F-12 freons in the atmosphere 724(1996)265

Destruction of halogenated methanes by non-electron capture processes within an electron capture detector 742(1996)135

Electron capture detection

Investigation of the use of oxygen doping of the electron-capture detection for determination of atmospheric halocarbons 707(1995)255

Optimization of electron-capture detector when using packed-column supercritical fluid chromatography with modified carbon dioxide 723(1996)361

Simple method of electron capture detector calibration for quantitative measurements of F-11 and F-12 freons in the atmosphere 724(1996)265

Destruction of halogenated methanes by non-electron capture processes within an electron capture detector 742(1996)135

Analysis of the possibility of SF₆ detection by a solute switching method with a modulator containing a ⁶³Ni source 743(1996)301

Electroosmosis

Electroosmosis in capillary zone electrophoresis with non-uniform zeta potential 709(1995)51

Dynamic simulator for capillary electrophoresis with in situ calculation of electroosmosis 716(1995)17

Electroosmotic flow

Contribution of the electroosmotic flow to peak broadening in capillary zone electrophoresis with uniform zeta potential 709(1995)63

Effects of alkylamines on electroosmotic flow and protein migration behaviour in capillary electrophoresis 709(1995)127

Control of the electroosmotic flow by metal-salt-containing buffers 716(1995)97

Capillary electrochromatography of small molecules in polyacrylamide gels with electroosmotic flow 716(1995)107

Analysis of halides, oxyhalides and metal oxoacids by capillary electrophoresis with suppressed electroosmotic flow 718(1995)421

Separation of basic proteins by capillary zone electrophoresis with coatings of a copolymer of vinylpyrrolidone and vinylimidazole 730(1996)289

Comparison of different electroosmotic flow modifiers in the analysis of inorganic anions by capillary electrophoresis 732(1996)167

Apparent baseline irregularities for neutral markers in capillary zone electrophoresis with electroosmotic flow 734(1996)351

Hydrolytically stable amino-silica glass coating material for manipulation of the electroosmotic flow in capillary electrophoresis 744(1996)17

Method for measuring very weak, residual electroosmotic flow in coated capillaries 744(1996)55

Control of separation selectivity and electroosmotic flow in nonaqueous capillary electrophoretic separations of alkali and alkaline earth metal ions 749(1996)279

Electroosmotic flow modifier

Analysis of disparate levels of anions of relevance to corrosion processes 739(1996)191

Electrophoretically mediated microanalysis

Moving boundary electrophoretically mediated microanalysis 726(1996)193

Dynamic modeling of electrophoretically mediated microanalysis 732(1996)119

Study of the competitive inhibition of adenosine deaminase by *erythro*-9-(2-hydroxy-3-nonyl)adenine using capillary zone electrophoresis 745(1996)293

Electrophoretic mobility

Interpretation of migration behaviour of inorganic cations in capillary ion electrophoresis based on an equilibrium model 706(1995)503

Free-solution electrophoresis of proteins in an improved density gradient column and by capillary electrophoresis 707(1995)77

Capillary electrophoresis device with double UV detection and its application to the determination of effective mobilities of peptides 709(1995)31

Ionic strength and charge number correction for mobilities of multivalent organic anions in capillary electrophoresis 709(1995)163

Statistical evaluation of various qualitative parameters in capillary electrophoresis 718(1995)153

Examination of the origin, variation, and proper use of expressions for the estimation of association constants by capillary electrophoresis 721(1996)173

Study of the capillary zone electrophoretic behaviour of selected drugs, and its comparison with other analytical techniques for their formulation assay 735(1996)237

Self-consistent framework for standardising mobilities in free solution capillary electrophoresis: applications to oligoglycines and oligoalanines 741(1996)99

Determination of acidity constants of monoprotic and diprotic acids by capillary electrophoresis 745(1996)117

Electrospray, high-flow pneumatically assisted

Trace determination of herbicides in estuarine waters by liquid chromatography–high-flow pneumatically assisted electrospray mass spectrometry 712(1995)113

Electrospray interface

Liquid chromatography–mass spectrometry. General principles and instrumentation 703(1995)37

Performance of an electrospray-interfaced thermospray ion source in hyphenated techniques 712(1995)211

Electrospray ionization

Enhanced sensitivity for peptide mapping with electrospray liquid chromatography–mass spectrometry in the presence of signal suppression due to trifluoroacetic acid-containing mobile phases 712(1995)177

Optimization of conditions for the analysis of a peptide mixture and a tryptic digest of cytochrome *c* by capillary electrophoresis–electrospray-ionization mass spectrometry with an improved liquid-sheath probe 712(1995)245

Development of electrophoretic conditions for the characterization of protein glycoforms by capillary electrophoresis–electrospray mass spectrometry 720(1996)409

Determination of heterocyclic amines by pneumatically assisted electrospray liquid chromatography–mass spectrometry 730(1996)185

Microbore high-performance liquid chromatography–electrospray ionisation mass spectrometry of steroid sulphates 738(1996)191

Reversed-phase high-performance liquid chromatography combined with tandem mass spectrometry in studies of a substance P-converting enzyme from human cerebrospinal fluid 743(1996)213

On-line liquid chromatography–electrospray ionization mass spectrometry for determination of the brevetoxin profile in natural “red tide” algae blooms 750(1996)115

Electrostatic interactions

Solution properties of polyelectrolytes. XII. Semi-quantitative approach to mixed electrostatic and hydrophobic polymer–gel interactions 721(1996)203

Electrotopological state indices

Using topological indices in the prediction of gas chromatographic retention indices of linear alkylbenzene isomers 719(1996)462

Element-specific detection

Element- and isotope-specific detection for high-performance liquid chromatography using chemical reaction interface mass spectrometry 732(1996)189

Eluents, non-aqueous

Ion chromatographic separation of alkali metals in organic solvents 706(1995)149

Eluent suppression

Ion chromatographic determination of nutrients in sea water 706(1995)277

Eluent temperature

Temperature of the eluent: a neglected tool in high-performance liquid chromatography? 728(1996)299

Elution band profiles

Modeling of radial heterogeneity in chromatographic columns 734(1996)97

Elution by characteristic points method

Determination of the gas–liquid partition isotherms of the enantiomers of methyl 2-chloropropionate on trichloroacetyl pentyl β -cyclodextrin using the elution by characteristic points method 734(1996)155

Elution development

Non-linear waves in chromatography (Review) 734(1996)7

Elution profiles

Determination of enantiomerization barriers by computer simulation of experimental elution profiles obtained by high-performance liquid chromatography on a chiral stationary phase 731(1996)315

Modeling of the influence of the experimental conditions on the separation of the components of a binary mixture in isocratic overloaded elution preparative chromatography 734(1996)49

Elution systems

Comparison of three methods for the determination of oxysterols in spray-dried egg 705(1995)289

Emersion peaks

Emersion peaks in capillary electrophoresis 716(1995)3

Emulsion samples

Packed-column supercritical fluid chromatography of a new dihydropyridine drug based on direct injection of emulsion samples 749(1996)193

Enantiomeric purity

Novel approach to the measurement of enantiomeric purity by high-performance liquid chromatography using a polarized photometric detector equipped with a split cell 727(1996)55

Enantiomerization

Determination of enantiomerization barriers by computer simulation of experimental elution profiles obtained by high-performance liquid chromatography on a chiral stationary phase 731(1996)315

Quinine and quinidine derivatives as chiral selectors

741(1996)33

Enantioselectivity

Effects of organic modifiers on the chiral recognition by different types of silica-immobilized bovine serum albumin 740(1996)207

Enantiomer separation

Separation of enantiomers of 1*a*,2,7,7*a*-tetrahydro-3-methoxynaphtha-(2,3*b*)-oxirane by liquid chromatography: laboratory-scale elution chromatography and modelling of simulated moving bed 702(1995)223

Egg yolk riboflavin binding protein as a new chiral stationary phase in high-performance liquid chromatography 704(1995)55

Cationic β -cyclodextrin: a new versatile chiral additive for separation of drug enantiomers by high-performance liquid chromatography 704(1995)67

Resolution of gram quantities of racemates by high-speed counter-current chromatography 704(1995)75

Direct high-performance liquid chromatographic separation of the enantiomers of methoxy and hydroxy derivatives of 3,4-dihydro-3-(dipropylamino)-2*H*-1-benzopyrans with dopaminergic activity 704(1995)83

Direct and indirect chiral separation of amino acids by capillary electrophoresis 704(1995)179

Direct high-performance liquid chromatography resolution on chiral columns of tiaprofenic acid and related compounds in bulk powder and pharmaceutical formulations 704(1995)217

Enantiomeric resolution of anionic *R/S*-1,1'-binaphthyl-2,2'-diyl hydrogen phosphate by capillary electrophoresis using anionic cyclodextrin derivatives as chiral selectors 704(1995)234

Monitoring of optical isomers of some conformationally constrained amino acids with tetrahydroisoquinoline or tetraline ring structures. Part II 705(1995)257

Enantiomeric separation of basic drugs using *N*-benzyloxycarbonylglycyl-L-proline as counter ion in methanol 705(1995)275

Separation of stereoisomers of aminoglutethimide using three capillary electrophoretic techniques 705(1995)343

Application of modified cyclodextrins in capillary electrophoresis for enantiomeric resolution of propranolol and analogues 705(1995)351

Peptide chiral purity determination: hydrolysis in deuterated acid, derivatization with Marfey's reagent and analysis using high-performance liquid chromatography-electrospray ionization-mass spectrometry 707(1995)233

Determination of β -cyclodextrin inclusion complex constants for 3,4-dihydro-2-*H*-1-benzopyran enantiomers by capillary electrophoresis 707(1995)311

Free-solution capillary electrophoretic resolution of chiral amino acids via derivatization with homochiral isothiocyanates. Part I 707(1995)355

Direct separation of carboxylic acid and amine enantiomers by high-performance liquid chromatography on reversed-phase silica gels coated with chiral copper(II) complexes 707(1995)380

Separation of enantiomers on a pepsin-bonded column 708(1995)161

Enantiomeric enrichment of partially resolved 4-hydroxy-2-carboxymethylcyclopentanone derivatives by achiral phase chromatography 708(1995)231

Enantiomeric separation of a thiazole derivative by high-performance liquid chromatography and micellar electrokinetic chromatography 708(1995)245

Chiral separations of β -blocking drug substances using chiral stationary phases 708(1995)253

Separation of precolumn-labelled D- and L-amino acids by micellar electrokinetic chromatography with UV and fluorescence detection 708(1995)323

Micellar electrokinetic chromatography using high-molecular-mass surfactants: comparison between anionic and cationic surfactants and effects of modifiers 709(1995)3

Capillary zone electrophoretic separation of the enantiomers of dipeptides based on host-guest complexation with a chiral crown ether 709(1995)81

Enantiomeric separation by capillary electrophoresis using a soluble neutral β -cyclodextrin polymer 709(1995)89

Chiral separation of deprenyl and its major metabolites using cyclodextrin-modified capillary zone electrophoresis 709(1995)157

Separation of enantiomers of benzodiazepines on the Chiral-AGP column 709(1995)265

Highly sensitive high-performance liquid chromatographic method to discriminate enantiomeric monoacylglycerols based on fluorescent chiral derivatization with (*S*)-(+)-2-*tert*-butyl-2-methyl-1,3-benzodioxole-4-carboxylic acid 709(1995)375

Enantiomeric resolution of derivatized DL-amino acids by high-performance liquid chromatography using a β -cyclodextrin chiral stationary phase: A comparison between derivatization labels 710(1995)287

High-performance liquid chromatographic method for the separation of the optical isomers of γ,γ' -di-*tert*-butyl-D,L- γ -carboxyglutamic acid and D,L- γ -carboxyglutamic acid 710(1995)297

- Effect of urea addition on chiral separation of dansylamino acids by capillary zone electrophoresis with cyclodextrins 710(1995)331
- Enantiomeric separation of amphetamine related drugs by capillary zone electrophoresis using native and derivatized β -cyclodextrin as chiral additives 710(1995)339
- Combined polymerized chiral micelle and γ -cyclodextrin for chiral separation in capillary electrophoresis 711(1995)297
- Enantiospecific determination of nimodipine in human plasma by liquid chromatography–tandem mass spectrometry 712(1995)45
- Synthesis and use of novel chiral surfactants in micellar electrokinetic capillary chromatography 712(1995)365
- Determination of the enantiomeric purity of 5,6-dihydroxy-2-aminotetralin by high-performance capillary electrophoresis with crown ether as chiral selector 715(1995)143
- Determination of chiral reagent purity by capillary electrophoresis 715(1995)151
- Separation of formoterol enantiomers and detection of zeptomolar amounts by capillary electrophoresis using laser-induced fluorescence 715(1995)159
- High-performance liquid chromatographic method for the separation of isomers of *cis*- and *trans*-2-amino-cyclopentane-1-carboxylic acid 715(1995)219
- Glycerol as a new dissolution medium for α -, β - and γ -cyclodextrins for preparing stereoselective stationary phases for gas–liquid chromatography 715(1995)309
- Enantiomeric resolution using the macrocyclic antibiotics rifamycin B and rifamycin SV as chiral selectors for capillary electrophoresis 715(1995)337
- GABA-B agonists: enantiomeric resolution of 4-amino-3- (5-chlorothien-2-yl)butyric acid and analogues on chiral crown ether stationary phase 715(1995)361
- Use of negatively charged sulfobutyl ether- β -cyclodextrin for enantiomeric separation by capillary electrophoresis 716(1995)183
- Buffer effects in the desionoselective/ionoselective/duoselective separation selectivity model-assisted optimization of the capillary electrophoretic separation of enantiomers. I. Low-pH phosphate buffers 716(1995)197
- Optical resolution of amino acid derivatives by micellar electrokinetic chromatography with sodium N-tetradecanoyl-L-glutamate 716(1995)319
- Evaluation of an optically active crown ether for the chiral separation of di- and tripeptides 716(1995)371
- Separation of enantiomers of drugs by capillary electrophoresis. I. γ -Cyclodextrin as chiral solvating agent 717(1995)181
- Enantiomeric purity determination of propranolol by cyclodextrin-modified capillary electrophoresis 717(1995)203
- Chiral separation of amphetamines by high-performance capillary electrophoresis 717(1995)219
- Ultra-fast chiral separation of basic drugs by capillary electrophoresis 717(1995)229
- Enantioseparation of mianserine analogues using capillary electrophoresis with neutral and charged cyclodextrin buffer modifiers. ^{13}C NMR study of the chiral recognition mechanism 717(1995)245
- Optimization of chiral selectivity on cellulose-based high-performance liquid chromatographic columns using aprotic mobile-phase modifiers 718(1995)9
- Importance of stereospecific bioanalytical monitoring in drug development 719(1996)3
- Use of topological descriptors in chromatographic chiral separations 719(1996)37
- Observations relevant to the differential intercalation of enantiomers between the strands of brush-type chiral stationary phases 719(1996)299
- High-performance liquid chromatographic separation of β -amino alcohols. II. Separation of *trans*-2-(dialkylamino)cyclohexanols on an amylose-based chiral stationary phase 719(1996)315
- Facile separation of the enantiomers of diethyl N-(aryl)-1-amino-1-arylmethanephosphonates on a rationally designed chiral stationary phase 721(1996)241
- Resolution of (\pm)-ibuprofen using L-arginine-impregnated thin-layer chromatography 721(1996)369
- Factorial design approach to studying the high-performance liquid chromatographic chiral separation of N-arylthiazolin-2-(thi)one atropisomers on CHIRALCEL OJ 722(1996)177
- Enantioseparation of amino acids and amino alcohols on chiral stationary phases derived from α -amino acid- and pyrrolidinyldisubstituted cyanuric chloride 722(1996)189
- Enantioseparation and recognition mechanisms of dinitrobenzoyl-derivatized amino acids and amino alcohols on chiral stationary phases consisting of cyanuric chloride with (*S* or *R*)-phenylalanyl-(*S* or *R*)-1-(1-naphthyl)ethylamide substituent 722(1996)199
- Evaluation of new chiral stationary phases of bonded cyanuric chloride with amino acid and naphthylalkylamine substituents for liquid chromatographic separation of amino acids and amino alcohols as dinitrobenzoyl derivatives 722(1996)211

- Rapid analysis of amino acid enantiomers by chiral-phase capillary gas chromatography 722(1996)221
- Enantiomer separation by gas and high-performance liquid chromatography with tripeptide derivatives as chiral stationary phases 722(1996)229
- Capillary electrochromatography: operating characteristics and enantiomeric separations 723(1996)145
- Chiral separation of verapamil and related compounds using micellar electrokinetic capillary chromatography with mixed micelles of bile salt and polyoxyethylene ethers 723(1996)179
- Enantioselective analysis of chiral polychlorinated biphenyls in sediment samples by multidimensional gas chromatography–electron-capture detection after steam distillation–solvent extraction and sulfur removal 723(1996)399
- Enantioselective chromatography on brush-type chiral stationary phases containing totally synthetic selectors. Theoretical aspects and practical applications 724(1996)79
- Enantioselective separation of polychlorinated biphenyl atropisomers using chiral high-performance liquid chromatography 724(1996)219
- Micellar electrokinetic capillary chromatography with in-situ charged micelles 724(1996)285
- Separation of piperidine-2,6-dione drug enantiomers by micellar electrokinetic capillary chromatography using synthetic chiral surfactants 724(1996)307
- Preparative separation of the diastereomers of methyl branched-chain phosphatidylcholines 724(1996)367
- Comparison of chiral separations on polysaccharide chiral stationary phases to an improved Pirkle phase 725(1996)219
- Role of binding capacity versus binding strength in the separation of chiral compounds on protein-based high-performance liquid chromatography columns 725(1996)273
- Chloroformates and isothiocyanates derived from 2-arylpropionic acids as chiral reagents: synthetic routes and chromatographic behaviour of the derivatives 725(1996)323
- High-performance liquid chromatographic separation of the enantiomers of N-aryloxazolinones, N-aryl thiazolinones and their sulfur derivatives on a synthetic chiral stationary phase 726(1996)91
- Selective immobilization on silica gel of permethylated β -cyclodextrin for liquid chromatography 727(1996)195
- Molecularly imprinted uniform-size polymer-based stationary phase for high-performance liquid chromatography 728(1996)139
- Covalently bonded permethylated cyclodextrins, new selectors for enantiomeric separations by liquid chromatography 728(1996)171
- Flash chiral chromatography with cellulose tris(3,5-dimethylphenylcarbamate)-coated phases 728(1996)195
- Influence of the kind of the alcoholic modifier on chiral separation on a Chiralpak AD column 728(1996)249
- Bonded cellulose-derived high-performance liquid chromatography chiral stationary phases. I. Influence of the degree of fixation on selectivity 728(1996)407
- Bonded cellulose-derived high-performance liquid chromatography chiral stationary phases 728(1996)415
- Effect of the degree of substitution of cyclodextrin derivatives on chiral separations by high-performance liquid chromatography and capillary electrophoresis 728(1996)423
- Enantiomeric resolution of axially chiral compounds and interconvertible enantiomers by high-performance liquid chromatography 728(1996)433
- Influence of different types of cyclodextrins on the racemization of scopolamine-N-butylbromide 728(1996)441
- Liquid chromatographic separation of amino acid enantiomers on a silica-bonded chiral *s*-triazine column 728(1996)447
- Separation of enantiomeric β -methyl amino acids and of β -methyl amino acid containing peptides 728(1996)455
- Chromatographic resolution and pharmacological investigation of some imidazole derivatives 729(1996)1
- Liquid chromatographic separation of chiral triazolophthalazines 729(1996)5
- Determination of fluvastatin enantiomers and the racemate in human blood plasma by liquid chromatography and fluorometric detection 729(1996)13
- Enantiomeric separation of zopiclone, its metabolites and products of degradation on a β -cyclodextrin bonded phase 729(1996)19
- Preparative isolation of the eutomer of cyclothiazide by high-performance liquid chromatography on a cellulose-derived chiral stationary phase with toluene–acetone as the mobile phase 729(1996)29
- Synthesis and application of a new isothiocyanate as a chiral derivatizing agent for the indirect resolution of chiral amino alcohols and amines 729(1996)33

- Stereoselective determination of unchanged and glucuroconjugated eliprodil, a new anti-ischaemic drug, in human plasma and urine by precolumn derivatization and column-switching high-performance liquid chromatography with fluorescence detection 729(1996)323
- Maximization of separation efficiency in capillary electrophoretic chiral separations by means of mobility-matching background electrolytes 730(1996)273
- Facile liquid chromatographic enantioresolution of native amino acids and peptides using a teicoplanin chiral stationary phase 731(1996)123
- Direct chiral separation of amino acids derivatized with 2-(9-anthryl)ethyl chloroformate by capillary electrophoresis using cyclodextrins as chiral selectors 731(1996)283
- Some thoughts on the coupling of dissimilar chiral columns or the mixing of chiral stationary phases for the separation of enantiomers 731(1996)322
- Direct high-performance liquid chromatography resolution on a chiral column of dexfenfluramine and its impurities, in bulk raw drug and pharmaceutical formulations 731(1996)340
- Comparative capillary electrophoretic and nuclear magnetic resonance studies of the chiral recognition of racemic metomidate with cyclodextrin hosts 732(1996)133
- Capillary electrophoresis and ¹H NMR studies on chiral recognition of atropisomeric binaphthyl derivatives by cyclodextrin hosts 732(1996)143
- Chiral separation of dioxypromethazine enantiomers by capillary electrophoresis using β -cyclodextrin as a chiral selector 732(1996)175
- Reversal of enantiomer elution order in capillary electrophoresis using charged and neutral cyclodextrins 732(1996)183
- Improved chiral stationary phase derived from (*S*)-naproxen for the liquid chromatographic resolution of enantiomers 732(1996)209
- Diphenylethanediamine derivatives as chiral selectors 732(1996)215
- Preparative resolution of saclofen and hydroxysaclofen with analytical-scale high-performance liquid chromatography 732(1996)239
- Reversed-phase chiral ion-pair chromatography at a column temperature below 0°C using three generations of Hypercarb as solid-phase 732(1996)245
- Determination of the gas-liquid partition isotherms of the enantiomers of methyl 2-chloropropionate on trichloroacetyl pentyl β -cyclodextrin using the elution by characteristic points method 734(1996)155
- Preliminary design of a simulated counter-current chromatographic system for the separation of praziquantel enantiomers 734(1996)247
- Use of the equilibrium-dispersive model of nonlinear gas chromatography for the modelling of the elution band profiles in the preparative-scale gas chromatographic separation of enantiomers 734(1996)289
- Micellar electrokinetic chromatography. Perspectives in drug analysis 735(1996)3
- Enantiomer separation of drugs by electrokinetic chromatography 735(1996)57
- Identification of chiral drug isomers by capillary electrophoresis (Review) 735(1996)77
- Capillary electrophoresis of cardiovascular drugs 735(1996)123
- Separation and identification of designer drugs with capillary electrophoresis and on-line connection with ionspray mass spectrometry 735(1996)221
- Chiral analysis of basic drugs by oligosaccharide-mediated capillary electrophoresis 735(1996)283
- Enantiomeric separation of amphetamine and phenylephrine by cyclodextrin-mediated capillary zone electrophoresis 735(1996)295
- Validation of enantiomeric separations by micellar electrokinetic capillary chromatography using synthetic chiral surfactants 735(1996)303
- Chiral separations of underivatized arylpropionic acids by capillary zone electrophoresis with various cyclodextrins. Acidity and inclusion constant determinations 735(1996)311
- Separation of enantiomers of drugs by capillary electrophoresis 735(1996)333
- Enantiomer separation of basic drugs by capillary electrophoresis using ionic and neutral polysaccharides as chiral selectors 735(1996)345
- Determination of stoichiometric coefficients and apparent formation constants for α - and β -CD complexes of terpenes using reversed-phase liquid chromatography 736(1996)1
- Incremental development of chiral selectors for underivatized profens 736(1996)31
- Thin-layer chromatographic separation of enantiomeric dansylamino acids using a macrocyclic antibiotic as a chiral selector 736(1996)235
- Investigation of enantioselective separation of quinolonecarboxylic acids by capillary zone electrophoresis using vancomycin as a chiral selector 736(1996)303

- Investigation of the enantioselective separations of α -alkylarylcarboxylic acids on an amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase using quantitative structure–enantioselective retention relationships 737(1996)157
- Chiral separation of dansyl-amino acids in a nonaqueous medium by capillary electrophoresis 737(1996)263
- Influence of temperature on the enantioseparation of rolipram and structurally related racemates on Chiracel-OD 737(1996)333
- Systematic modification of the separation selectivity of cyclodextrin-based gas chromatographic stationary phases by varying the size of the 6-O-substituents 738(1996)31
- Regioselective carbamoylated and benzoylated cellulose for the separation of enantiomers in high-performance liquid chromatography 738(1996)157
- High-performance liquid chromatographic separation of an HIV-1 reverse transcriptase inhibitor and its enantiomer 738(1996)290
- Efficient high-performance liquid chromatographic enantioseparation of five-membered aryl-substituted lactones and cyclic carbamates on a (*R,R*)-diaminodihydroethanoanthracene-derived chiral stationary phase 740(1996)11
- Comparison of the chiral resolution on *cis*–*trans* isomeric chiral stationary phases derived from (*S*)-1-(1-naphthyl)ethylamine 740(1996)183
- Effects of organic modifiers on the chiral recognition by different types of silica-immobilized bovine serum albumin 740(1996)207
- Chromatographic separation of enantiomers on N,N'-diallyl-L-tartardiamide-based network–polymeric chiral stationary phases 741(1996)23
- Quinine and quinidine derivatives as chiral selectors 741(1996)33
- Separation of the four stereoisomers of Z11556A, intermediate in the synthesis of triazole antimycotics, by capillary electrophoresis 741(1996)123
- Mechanistic investigation into the enantioselective separation of mexiletine and related compounds, chromatographed on an amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase 741(1996)205
- Chiral separation of muscarinic antagonists by capillary zone electrophoresis with cyclodextrin additives 741(1996)287
- Cyclodextrin derivatives in the gas chromatographic separation of racemic mixtures of volatile compounds 742(1996)161
- Use of heptakis(2,6-di-*O*-methyl)- β -cyclodextrin in on-line capillary zone electrophoresis-mass spectrometry for the chiral separation of ropivacaine 742(1996)235
- Planar chromatographic direct separation of some aromatic amino acids and aromatic amino alcohols into enantiomers using cyclodextrin mobile phase additives 742(1996)289
- Investigation on enantiomeric separations of fluorenylmethoxycarbonyl amino acids and peptides by high-performance liquid chromatography using native cyclodextrins as chiral stationary phases 743(1996)261
- Investigation of chiral resolution using displacement interactions with polymer networks in capillary affinity zone electrophoresis 745(1996)1
- Use of cyclodextrins in the capillary electrophoretic separation of *erythro*- and *threo*-mefloquine enantiomers 745(1996)17
- Systematic approach to the treatment of enantiomeric separations in capillary electrophoresis and liquid chromatography. III. A binding constant-retention factor relationship and effects of acetonitrile on the chiral separation of tioconazole 745(1996)25
- Chiral separation in non-aqueous media by capillary electrophoresis using the ion-pair principle 745(1996)37
- Development and validation of a combined potency assay and enantiomeric purity method for a chiral pharmaceutical compound using capillary electrophoresis 745(1996)45
- Separation of D/L-carnitine enantiomers by capillary electrophoresis 745(1996)53
- Influence of the nature of the buffer on chiral separation in capillary electrophoresis 745(1996)61
- Enantiomeric separation of *N-tert.*-butoxycarbonyl amino acids by capillary electrophoresis using hydroxypropyl-substituted cyclodextrins 745(1996)73
- Determination of binding constants and the influence of methanol on the separation of drug enantiomers in cyclodextrin modified capillary electrophoresis 745(1996)181
- Detection of non-UV-absorbing chiral compounds by high-performance liquid chromatography–mass spectrometry 746(1996)9
- Gas chromatographic enantiomer separation on a chiral self-associating selector 746(1996)53
- Comparison of liquid and supercritical fluid chromatography using naphthylethylcarbamoylated- β -cyclodextrin chiral stationary phases 746(1996)91
- On the relevance of face-to-edge π – π interactions to chiral recognition 749(1996)19

Enantioseparation in the synthesis of *myo*-inositol phosphates by high-performance liquid chromatography using a β -cyclodextrin-bonded column 749(1996)25

Resolution of enantiomeric steroids by high-performance liquid chromatography on chiral stationary phases 749(1996)61

Utilization of *n*-alkyl- β -D-glucopyranosides in enantiomeric separation by micellar electrokinetic chromatography 749(1996)257

Cyclodextrins as buffer additives for the enantiomeric separation of pinacidil in capillary zone electrophoresis 749(1996)300

Enantioselectivity

Buffer effects in the desionoselective/ionoselective/duoselective separation selectivity model-assisted optimization of the capillary electrophoretic separation of enantiomers. I. Low-pH phosphate buffers 716(1995)197

Examination of the origin, variation, and proper use of expressions for the estimation of association constants by capillary electrophoresis 721(1996)173

Bonded cellulose-derived high-performance liquid chromatography chiral stationary phases. I. Influence of the degree of fixation on selectivity 728(1996)407

Facile liquid chromatographic enantioresolution of native amino acids and peptides using a teicoplanin chiral stationary phase 731(1996)123

Investigation of the enantioselective separations of α -alkylarylcarboxylic acids on an amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase using quantitative structure–enantioselective retention relationships 737(1996)157

Systematic modification of the separation selectivity of cyclodextrin-based gas chromatographic stationary phases by varying the size of the 6-O-substituents 738(1996)31

Regioselective carbamoylated and benzoylated cellulose for the separation of enantiomers in high-performance liquid chromatography 738(1996)157

Effects of organic modifiers on the chiral recognition by different types of silica-immobilized bovine serum albumin 740(1996)207

Endcapping

End-capping of octadecylsilylated silica gels by high-temperature silylation 737(1996)139

Enhanced-fluidity liquids

Normal-phase high-performance liquid chromatography using enhanced-fluidity liquid mobile phases 707(1995)217

Comparison of the extraction of phenolic and nitroaromatic pollutants using supercritical and enhanced-fluidity liquid methanol–CO₂ mixtures 737(1996)233

Enthalpy

Thermodynamic consideration of the retention mechanism in a poly(perfluoroalkyl ether) gas chromatographic stationary phase used in packed columns 715(1995)299

Environmental analysis

see also Special issue index

Supercritical fluid extraction in environmental analysis 703(1995)549

Carbon sorbents and their utilization for the preconcentration of organic pollutants in environmental samples 707(1995)145

Thermal desorption–gas chromatography–mass spectrometry–flame ionization detection–sniffer multi-coupling: A device for the determination of odorous volatile organic compounds in air 708(1995)105

Determination of organophosphorus pesticides in environmental samples by capillary gas chromatography–mass spectrometry 709(1995)319

Selective determination of aromatic amines in water samples by capillary zone electrophoresis and solid-phase extraction 709(1995)361

Detection methods for the analysis of biogenic non-methane hydrocarbons in air 710(1995)39

Recent applications of gas and high-performance liquid chromatographic techniques to the analysis of polycyclic aromatic hydrocarbons in airborne particulates 710(1995)79

Determination of benzantrone in environmental samples 710(1995)109

Monitoring polycyclic aromatic hydrocarbons in waste gases 710(1995)129

Determination of the pesticide diflubenzuron in mushrooms by high-performance liquid chromatography–atmospheric pressure chemical ionisation mass spectrometry 712(1995)85

Determination of organophosphorus pesticides and their transformation products in river waters by automated on-line solid-phase extraction followed by thermospray liquid chromatography–mass spectrometry 712(1995)103

Polar organic pollutants in the Elbe river. Liquid chromatographic–mass spectrometric and flow-injection analysis–mass spectrometric analyses demonstrating changes in quality and concentration during the unification process in Germany 712(1995)123

Differentiation of the source of spilled oil and monitoring of the oil weathering process using gas chromatography–mass spectrometry 712(1995)321

- Steam distillation–solvent extraction, a selective sample enrichment technique for the gas chromatographic– electron-capture detection of organochlorine compounds in milk powder and other milk products 712(1995)355
- Determination of hydroxy-substituted polycyclic aromatic hydrocarbons by high-performance liquid chromatography with electrochemical detection 715(1995)41
- Trace analysis of fluorescein-derivatized phenoxy acid herbicides by micellar electrokinetic chromatography with laser-induced fluorescence detection 717(1995)299
- Separation of phenylurea pesticides by ion-interaction reversed-phase high-performance liquid chromatography. Diuron determination in lagoon water 718(1995)81
- Separation of planar organic contaminants by pyrenyl-silica high-performance liquid chromatography 718(1995)107
- Determination of triorganotin compounds by ion chromatography and capillary electrophoresis with preconcentration using solid-phase extraction 718(1995)329
- Sorbent evaluation for diffusive monitoring of environmental contaminants 719(1996)87
- Matrix solid-phase dispersion extraction procedure for multiresidue pesticide analysis in oranges 719(1996)95
- Determination of dinitroaniline herbicides in environmental samples by gas chromatography 719(1996)113
- Determination of benzene and alkylated benzenes in ambient and exhaled air by microwave desorption coupled with gas chromatography–mass spectrometry 719(1996)383
- UV detection of triazine herbicides and their hydroxylated and dealkylated degradation products in well water 721(1996)107
- Comparative study of three extraction procedures for imazamethabenz-methyl in agricultural soil 721(1996)113
- Determination of dimethylamine in groundwater by liquid chromatography and precolumn derivatization with 9-fluorenylmethylchloroformate 721(1996)231
- Determination of chlorophenols at the sub-ppb level in tap water using derivatization, solid-phase extraction and gas chromatography with plasma atomic emission detection 721(1996)297
- Determining the characteristics of water pollutants by neural sensors and pattern recognition methods 722(1996)233
- Migration behaviour and selectivity of dichlorophenols in micellar electrokinetic capillary chromatography. Influence of micelle concentration and buffer pH 722(1996)333
- Langmuirian behaviour of smelly volatile organic compounds on air sampling with solid adsorbents 723(1996)293
- Prediction from liquid chromatographic data of obligatory backflush desorption from solid-phase extraction cartridges packed with porous graphitic carbon 725(1996)57
- Analysis of microcontaminants in aqueous samples by fully automated on-line solid-phase extraction–gas chromatography–mass selective detection 725(1996)67
- Improvements in the determination of organophosphorus pesticides in ground- and wastewater samples from interlaboratory studies by automated on-line liquid–solid extraction followed by liquid chromatography–diode array detection 725(1996)85
- Comparison of the performance of solid-phase extraction techniques in recovering organophosphorus and organochlorine compounds from water 725(1996)93
- Selective trace enrichment on immunosorbents for the multiresidue analysis of phenylurea and triazine pesticides 725(1996)107
- Determination of herbicides in surface water by means of a supported liquid membrane technique and high-performance liquid chromatography 725(1996)121
- Solid-phase microextraction of the herbicide metolachlor in runoff and tile-drainage water samples 725(1996)129
- Qualitative analysis of contaminated environmental extracts by multidimensional gas chromatography with infrared and mass spectral detection (MDGC–IR–MS) 726(1996)167
- Simple and rapid determination of the herbicides glyphosate and glufosinate in river water, soil and carrot samples by gas chromatography with flame photometric detection 726(1996)253
- Determination of cypermethrin, fenvalerate and *cis*- and *trans*-permethrin in soil and groundwater by high-performance liquid chromatography using partial least-squares regression 727(1996)39
- Optimization study for the speciation analysis of organotin and organogermanium compounds by on-column capillary gas chromatography with flame photometric detection using quartz surface-induced luminescence 727(1996)119
- Influence of organic matter and surfactants on solid-phase extraction of diquat, paraquat and difenzoquat from waters 727(1996)245
- Ion-pairing mechanism in the solid-phase extraction and reversed-phase high-performance liquid chromatographic determination of acidic herbicides in water 728(1996)319
- Determination of polycyclic aromatic hydrocarbons in water samples using high-performance liquid chromatography with amperometric detection 730(1996)169

- Application of multivariate self-modeling curve resolution to the quantitation of trace levels of organophosphorus pesticides in natural waters from interlaboratory studies 730(1996)177
- Pesticide analysis by micellar electrokinetic capillary chromatography 730(1996)337
- Integrated system for on-line gas and liquid chromatography with a single mass spectrometric detector for the automated analysis of environmental samples 730(1996)353
- Determination of phenols in environmental waters using liquid chromatography with electrochemical detection 731(1996)95
- On-line preconcentration, cleanup and high-performance liquid chromatographic determination of chlorophenoxy acid herbicides in water 731(1996)115
- Quantification of toxic hydrocarbon target compounds in engine exhaust and air by aluminum oxide porous-layer open-tubular capillary gas chromatography–mass spectrometry using isotopically labeled internal standards 731(1996)217
- Enrichment of chlorinated fatty acids in fish lipids prior to analysis by capillary gas chromatography with electrolytic conductivity detection and mass spectrometry 731(1996)225
- Detectability enhancement by the use of large-volume injections in gas chromatography–cryotrapping–Fourier transform infrared spectrometry 732(1996)75
- Analysis of 23 polynuclear aromatic hydrocarbons from natural water at the sub-ng/l level using solid-phase disk extraction and mass-selective detection 732(1996)85
- Artifact-free preparation, storage and analysis of solid adsorbent sampling cartridges used in the analysis of volatile organic compounds in air 732(1996)414
- Chromatographic and related spot tests for the detection of water pollutants 733(1996)5
- Derivatization reactions for the determination of amines by gas chromatography and their applications in environmental analysis 733(1996)19
- Evaluation of two new examples of graphitized carbon blacks for use in solid-phase extraction cartridges 733(1996)41
- Determination of Cs-137 in environmental water by ion-exchange chromatography (Review) 733(1996)57
- Suppressed ion chromatographic analysis of anions in environmental waters containing high salt concentrations (Review) 733(1996)73
- Determination of adsorption characteristics of the nutrient orthophosphate to natural colloids by sedimentation field-flow fractionation 733(1996)105
- Environmental analysis of volatile organic compounds in water and sediment by gas chromatography 733(1996)119
- Solid-phase microextraction coupled to gas chromatography: a new method for the analysis of organics in water 733(1996)143
- Characterization of organic micropollutants in the River Cinca (Spain) by using granular activated carbon and liquid–liquid extraction 733(1996)159
- Occurrence and determination of organic pollutants in tap and surface waters of the Gdańsk district 733(1996)171
- Chromatographic determination of non-ionic aliphatic surfactants of the alcohol polyethoxylate type in the environment (Review) 733(1996)193
- Determination of surfactants in surface water by solid-phase extraction, liquid chromatography and liquid chromatography–mass spectrometry 733(1996)207
- Extraction methodology and chromatography for the determination of residual pesticides in water 733(1996)217
- Comparison of gas and liquid chromatography for analysing polar pesticides in water samples (Review) 733(1996)235
- Pesticide analysis by high-performance liquid chromatography using the direct injection method 733(1996)259
- Determination of ten carbamate pesticides in aquatic and sediment samples by liquid chromatography–ionspray and thermospray mass spectrometry 733(1996)283
- Determination of triazine herbicides in environmental samples 733(1996)295
- Monitoring of herbicide pollution in water by capillary electrophoresis 733(1996)337
- Determination of triazine herbicides in water by micellar electrokinetic capillary chromatography 733(1996)349
- Gas chromatographic determination of acid herbicides in surface water samples with electron-capture detection and mass spectrometric confirmation 733(1996)361
- Liquid chromatographic determination of methabenzthiazuron in soil aqueous solutions with photodiode-array detection 733(1996)367
- Comparison of different sorbent materials for on-line liquid–solid extraction followed by liquid chromatographic determination of priority phenolic compounds in environmental waters 733(1996)371
- Trace determination of phenols in natural waters. Extraction by a new graphitized carbon black cartridge followed by liquid chromatography and re-analysis after phenol derivatization 733(1996)383

- Determination of pentachlorophenol in water samples by capillary zone electrophoresis 733(1996)395
- Analysis of structural isomers of polychlorinated phenols in water by liquid-nitrogen-trapping gas chromatography–Fourier transform infrared spectroscopy 733(1996)405
- Methods of isolation and determination of volatile organohalogen compounds in natural and treated waters 733(1996)417
- Current developments in the analysis of water pollution by polychlorinated biphenyls 733(1996)449
- Methods of analysis of polar aromatic sulfonates from aquatic environments 733(1996)473
- Use of capillary gas chromatography for measuring fecal-derived sterols. Application to stormwater, the sea-surface microlayer, beach greases, regional studies, and distinguishing algal blooms and human and non-human sources of sewage pollution 733(1996)497
- Capillary electrophoresis with detection by inverse UV spectroscopy and electrospray mass spectrometry for the examination of quaternary ammonium herbicides 734(1996)339
- Separation of eleven priority phenols by capillary zone electrophoresis with ultraviolet detection 734(1996)367
- Determination of polar pesticides in ground water using liquid chromatography–mass spectrometry with atmospheric pressure chemical ionization 736(1996)105
- Ion chromatographic speciation of chromium with diphenylcarbazide-based spectrophotometric detection 736(1996)141
- Determination of organochlorine pesticides in water by membranous solid-phase extraction, and in sediment by microwave-assisted solvent extraction with gas chromatography and electron-capture and mass spectrometric detection 736(1996)211
- Analysis of organophosphorus insecticides from environmental samples using solid-phase microextraction 736(1996)219
- Capillary zone electrophoretic and micellar electrokinetic capillary chromatographic separations of polyaminopolycarboxylic acids as their copper complexes 736(1996)333
- Accreditation in the UK for pesticide residue analysis in foods 737(1996)3
- Gel permeation chromatography–high-performance liquid chromatography combination as an automated clean-up technique for the multiresidue analysis of fats 737(1996)9
- Evaluation of new polymeric sorbents with high specific surface areas using an on-line solid-phase extraction–liquid chromatographic system for the trace-level determination of polar pesticides 737(1996)15
- Simple removal of humic and fulvic acid interferences using polymeric sorbents for the simultaneous solid-phase extraction of polar acidic, neutral and basic pesticides 737(1996)25
- On-line solid-phase extraction in liquid chromatography using restricted access pre-columns for the analysis of *s*-triazines in humic-containing waters 737(1996)35
- Automated sample preparation with extraction columns followed by liquid chromatography–ionspray mass spectrometry. Interferences, determination and degradation of polar organophosphorus pesticides in water samples 737(1996)47
- Development of a prototype system for quasi-continuous analysis of organic contaminants in surface or sewage water based on in-line coupling of solid-phase microextraction to gas chromatography 737(1996)59
- Pesticide monitoring of drinking water with the help of solid-phase extraction and high-performance liquid chromatography 737(1996)67
- Rapid determination of glufosinate, glyphosate and aminomethylphosphonic acid in environmental water samples using precolumn fluorogenic labeling and coupled-column liquid chromatography 737(1996)75
- Analysis of chlorinated 1,3-butadienes by solid-phase microextraction and gas chromatography–mass spectrometry 737(1996)85
- Determination and stability of pesticides in freeze-dried water samples by automated on-line solid-phase extraction followed by liquid chromatography with diode-array detection 737(1996)93
- High-performance liquid chromatographic determination of ¹⁴C-labelled terbuthylazine and principal degradates in percolation water and soil extracts from leaching experiments 737(1996)101
- Comparative study of high-performance liquid chromatography and micellar electrokinetic capillary chromatography applied to the analysis of different mixtures of pesticides 737(1996)109
- On-line and off-line solid–liquid extraction and liquid chromatographic analysis at trace levels, for monitoring of herbicides and their degradation products in river and fluvio–estuarine freshwater–seawater interfaces 737(1996)117
- Application of radio-chromatographic techniques to diesel emissions research 737(1996)181
- Rapid multiresidue screening method for the determination of pesticides in plant materials 737(1996)215

- Comparison of the extraction of phenolic and nitroaromatic pollutants using supercritical and enhanced-fluidity liquid methanol-CO₂ mixtures 737(1996)233
- Determination of phenolic compounds in natural waters by liquid chromatography with ultraviolet and electrochemical detection after on-line trace enrichment 738(1996)1
- Solid sorbent method for the collection and analysis of volatile halogenated organic compounds in soil gas 738(1996)73
- Determination of nitrilotriacetic, ethylenediaminetetraacetic and diethylenetriaminepentaacetic acids in sewage treatment plant and paper mill effluents 738(1996)91
- Gas chromatographic-mass spectrometric study of photodegradation of carbamate pesticides 738(1996)225
- Optimization of a drying method for filtered suspended solids from natural waters for supercritical fluid extraction analysis of hydrophobic organic compounds 738(1996)253
- Method development for trace analysis of heteroaromatic compounds in contaminated groundwater 738(1996)295
- Determination of phosphate and sulphite in natural waters in the presence of high sulphate concentrations by ion chromatography under isocratic conditions 739(1996)207
- Determination of heavy metals in air particulate matter by ion chromatography 739(1996)233
- Analysis of fluoride in rain water 739(1996)241
- Application of ion chromatography to the Hong Kong rainfall monitoring program 739(1996)249
- High-performance liquid chromatographic characterization of dissolved organic matter from low-level radioactive waste leachates 739(1996)281
- Determination of atmospheric sulfur dioxide by ion chromatography in the city of Cabimas, Venezuela 739(1996)295
- Study of metal-fulvic acid interactions by capillary electrophoresis 739(1996)421
- New gas chromatographic-electron-capture detection method for the determination of atmospheric aldehydes and ketones based on cartridge sampling and derivatization with 2,4,6-trichlorophenylhydrazine 740(1996)71
- Rapid method for the analysis of a variety of chemical classes of pesticides in surface and ground waters by off-line solid-phase extraction and gas chromatography-ion trap mass spectrometry 740(1996)83
- Gas chromatographic system equipped with a mass detector and a selective nitrogen-phosphorous detector operating simultaneously in the analysis of pesticide residues 740(1996)263
- Chlorinated acid herbicides in water by strong anion-exchange disk extraction and in-vial elution and derivatization 741(1996)85
- Determination of retention indices of polychlorobiphenyls by using other compounds detectable by electron-capture detection or selected polychlorobiphenyls as the reference series 741(1996)241
- Application of solid-phase microextraction to the analysis of volatile organic compounds in water 742(1996)181
- Analysis of glyphosate using capillary electrophoresis with indirect detection 745(1996)189
- Herbicide analysis by micellar electrokinetic capillary chromatography 745(1996)201
- Analysis of single raindrops in the nl range by capillary electrophoresis 745(1996)209
- Analysis of chlorophenoxy acid herbicides by cyclodextrin-modified capillary electrophoresis 745(1996)217
- High-performance liquid chromatographic determination of flumetsulam, a newly developed sulfonamide herbicide in soil 746(1996)25
- Development of a whole headspace injection method for the determination of volatile organic compounds in water 746(1996)83
- Determination of imidacloprid in water and soil samples by gas chromatography-mass spectrometry 746(1996)289
- Simultaneous determination of chlorophenols, chlorobenzenes and chlorobenzoates in microbial solutions using pentafluorobenzylbromide derivatization and analysis by gas chromatography with electron-capture detection 749(1996)165
- Screening method for the determination of 28 volatile organic compounds in indoor and outdoor air at environmental concentrations using dual-column capillary gas chromatography with tandem electron-capture-flame ionization detection 749(1996)181
- Improvement of quality control of speciation analysis using hyphenated techniques (Review) 750(1996)25
- A new fast method for field screening of polychlorinated biphenyls in air 750(1996)151
- Automated at-line solid-phase extraction-gas chromatographic analysis of micropollutants in water using the PrepStation 750(1996)161

On-line coupled supercritical fluid extraction and chromatography for the determination of thiocarbamate herbicides in soil matrix 750(1996)175

Solid-phase extraction of polar pesticides from environmental water samples on graphitized carbon and Empore-activated carbon disks and on-line coupling to octadecyl-bonded silica analytical columns 750(1996)227

Application of ¹³C-labelled polychlorinated biphenyl congener 153 as internal standard in the gas chromatographic-mass spectrometric analysis of polychlorinated biphenyls 750(1996)245

Simultaneous determination of 3,4-dimethoxybenzaldehyde and 3,4-dimethoxyphenylacetone in industrial waste waters by high-performance liquid chromatography-diode array detection 750(1996)257

Hyphenated techniques for characterizing coal wastewaters and associated sediments 750(1996)287

Quantification of two chromatographic unresolved dichlorophenols using gas chromatography-direct deposition-Fourier transform infrared spectrometry and multivariate calibration 750(1996)341

Extraction of maleic hydrazide residues from potato crisps and their determination using high-performance liquid chromatography with UV and atmospheric pressure chemical ionisation mass spectrometric detection 750(1996)391

Enzymatic deglycosylation

Enzymatic release of oligosaccharides from glycoproteins for chromatographic and electrophoretic analysis 720(1996)201

Enzymatic nucleotide growth

Efficiency of chemical oligonucleotide synthesis evaluated by ion-exchange high-performance liquid chromatography 706(1995)405

Fractals for multicyclic synthesis conditions of biopolymers 739(1996)431

Enzyme-based detectors

Biospecific detection in liquid chromatography 703(1995)191

Enzyme-immobilized electrodes

Study of a new solid carbon paste tyrosinase-modified amperometric biosensor for the determination of catecholamines by high-performance liquid chromatography 727(1996)47

Enzyme-linked immunosorbent assays

Enzyme-linked immunosorbent assays in a chromatographic format 743(1996)195

Enzyme purification

Biomimetic dye affinity chromatography for the purification of bovine heart lactate dehydrogenase 718(1995)35

Epimedium species

Optimized separation of pharmacologically active flavonoids from *Epimedium* species by capillary electrophoresis 746(1996)123

Epimerization

Investigations into the epimerisation of tipredane ethylsulphoxide diastereoisomers during chromatographic analysis on reversed-phase silica. I. Investigations into the reaction mechanism 705(1995)219

Investigations into the epimerisation of tipredane ethylsulphoxide diastereoisomers during chromatographic analysis on reversed-phase silica. II. The involvement of metals in commercially available C₁₈ silicas 705(1995)229

Equilibrium constants

Retention mechanism of anions in micellar chromatography: Interpretation of retention data on the basis of an ion-exchange model 706(1995)37

Denuder tubes used with gas chromatographic instrumentation to measure rate coefficients and equilibrium constants 710(1995)191

Equilibrium-dispersive model

Influence of the concentration dependence of the mass transfer properties on chromatographic band profiles 731(1996)1

Use of the equilibrium-dispersive model of nonlinear gas chromatography for the modelling of the elution band profiles in the preparative-scale gas chromatographic separation of enantiomers 734(1996)289

Erythrocytes

Separation of hemoglobin variants in single human erythrocytes by capillary electrophoresis with laser-induced native fluorescence detection 718(1995)397

Determination of 5-aminolaevulinic acid dehydratase activity in erythrocytes and porphobilinogen in urine by micellar electrokinetic capillary chromatography 722(1996)353

Postcolumn reactor in capillary electrophoresis for laser-induced fluorescence detection 734(1996)331

Erythroxylum coca

Lesser alkaloids of cocaine-bearing plants 749(1996)173

Escherichia coli

Analysis of recombinant human interleukin-11 fusion protein derived from *Escherichia coli* lysate by combined size-exclusion and reversed-phase liquid chromatography 729(1996)113

Determination of peptidoglycan-associated protein in *Escherichia coli* NCIB 8545 by capillary zone electrophoresis 740(1996)273

Fast large-scale purification of tetracycline repressor variants from overproducing *Escherichia coli* strains 742(1996)95

Separation of recombinant human growth hormone from *Escherichia coli* cell pellet extract by capillary zone electrophoresis 744(1996)223

Two-step chromatographic procedure for purification of basic fibroblast growth factor from recombinant *Escherichia coli* and characterization of the equilibrium parameters of adsorption 746(1996)17

Essential oils

Analysis of bitter essential oils from orange and grapefruit by high-performance liquid chromatography with microbore columns 730(1996)9

Ethylation

Determination of butyl- and phenyltin compounds in biological material by gas chromatography–flame photometric detection after ethylation with sodium tetraethylborate 750(1996)317

Ethylvinylbenzene–divinylbenzene sorbents

Gas–solid retention volumes of organic compounds on styrene–divinylbenzene and ethylvinylbenzene–divinylbenzene copolymer sorbent beads 732(1996)317

Evaporative light-scattering detection

Analysis of mixtures containing free fatty acids and mono-, di- and triglycerides by high-performance liquid chromatography coupled with evaporative light-scattering detection 730(1996)83

Direct comparison of evaporative light-scattering and condensation nucleation light-scattering detection for liquid chromatography 736(1996)11

Evening Primrose oil

Stereospecific analysis of the major triacylglycerol species containing γ -linolenic acid in Evening Primrose oil and borage oil 704(1995)99

Evodiae Fructus

Determination of the alkaloids in Evodiae Fructus by high-performance liquid chromatography 727(1996)317

Experimental design

Micellar electrokinetic capillary chromatography of fungal metabolites. Resolution optimized by experimental design 721(1996)337

Method to study the separation of eight *p*-hydroxybenzoic esters by gas chromatography 727(1996)93

Rational experimental design for bioanalytical methods validation. Illustration using an assay method for total captopril in plasma 730(1996)381

Determination of the enantiomeric purity of dexfenfluramine by capillary electrophoresis: use of a Plackett–Burman design for the optimization of the separation 736(1996)281

Packed-column supercritical fluid chromatography of a new dihydropyridine drug based on direct injection of emulsion samples 749(1996)193

Expert systems

Teaching a computer ion chromatography from a database of published methods 739(1996)15

Practical evaluation of ion chromatography methods developed by an expert system 739(1996)25

Extraction disks

Comparison of the performance of solid-phase extraction techniques in recovering organophosphorus and organochlorine compounds from water 725(1996)93

Extraction methods

see also Clean-up methods, Sample handling, Solid-phase extraction and Solid-phase microextraction

Critical review of the analysis of non- and mono-*ortho*-chlorobiphenyls 703(1995)417

Concentration and separation of hypoglycemic drugs using solid-phase extraction–capillary electrophoresis 717(1995)279

Determination of pentachlorophenol in leather using supercritical fluid extraction with in situ derivatization 718(1995)131

Extraction and clean-up methods for improvement of the chromatographic determination of polychlorinated biphenyls in sewage sludge-amended soils: elimination of lipids and sulphur 719(1996)121

Comparative study of three extraction procedures for imazamethabenz-methyl in agricultural soil 721(1996)113

Molecular recognition of phenobarbital in plasticizers. Equilibrium investigations on the solubility of the barbiturate artificial receptor and its binding to phenobarbital in plasticizers 722(1996)47

Optimization of microwave-assisted solvent extraction of polycyclic aromatic hydrocarbons in marine sediments using a microwave extraction system with high-performance liquid chromatography–fluorescence detection and gas chromatography–mass spectrometry 723(1996)259

Improvements in the determination of organophosphorus pesticides in ground- and wastewater samples from interlaboratory studies by automated on-line liquid–solid extraction followed by liquid chromatography–diode array detection 725(1996)85

New and efficient microextraction/solid-phase extraction method for the gas chromatographic analysis of wine volatiles 731(1996)247

Analysis of 23 polynuclear aromatic hydrocarbons from natural water at the sub-ng/l level using solid-phase disk extraction and mass-selective detection 732(1996)85

Environmental analysis of volatile organic compounds in water and sediment by gas chromatography 733(1996)119

Characterization of organic micropollutants in the River Cinca (Spain) by using granular activated carbon and liquid-liquid extraction 733(1996)159

Extraction methodology and chromatography for the determination of residual pesticides in water 733(1996)217

Comparison of different sorbent materials for on-line liquid-solid extraction followed by liquid chromatographic determination of priority phenolic compounds in environmental waters 733(1996)371

Determination of triazine herbicides in environmental samples 733(1996)295

Current developments in the analysis of water pollution by polychlorinated biphenyls 733(1996)449

Determination of organochlorine pesticides in water by membranous solid-phase extraction, and in sediment by microwave-assisted solvent extraction with gas chromatography and electron-capture and mass spectrometric detection 736(1996)211

On-line solid-phase extraction in liquid chromatography using restricted access pre-columns for the analysis of *s*-triazines in humic-containing waters 737(1996)35

Development of a prototype system for quasi-continuous analysis of organic contaminants in surface or sewage water based on in-line coupling of solid-phase microextraction to gas chromatography 737(1996)59

Comparison of the extraction of phenolic and nitroaromatic pollutants using supercritical and enhanced-fluidity liquid methanol-CO₂ mixtures 737(1996)233

Sample preparation techniques for determining semi-volatile organic compounds in nuclear defense materials production waste 738(1996)215

Optimization of a drying method for filtered suspended solids from natural waters for supercritical fluid extraction analysis of hydrophobic organic compounds 738(1996)253

Method development for trace analysis of heteroaromatic compounds in contaminated groundwater 738(1996)295

Optimizing split/splitless injection port parameters for solid-phase microextraction 740(1996)139

Development of a needle device for on-line electroextraction-liquid chromatography 741(1996)13

Application of solid-phase microextraction to the analysis of volatile organic compounds in water 742(1996)181

Optimization of solid-phase extraction method for analysis of low-ppb amounts of aldehydes-ozonation by-products 749(1996)157

What is the true odour of cut *Allium*? Complementarity of various hyphenated methods: gas chromatography-mass spectrometry and high-performance liquid chromatography-mass spectrometry with particle beam and atmospheric pressure ionization interfaces in sulphenic acids rearrangement components discrimination 750(1996)63

Analysis of poly(vinyl chloride) additives by supercritical fluid extraction and gas chromatography 750(1996)183

Optimization of supercritical fluid extraction-gas chromatography of methylmercury in marine samples 750(1996)191

Determination of butyl- and phenyltin compounds in biological material by gas chromatography-flame photometric detection after ethylation with sodium tetraethylborate 750(1996)317

Extraction parameters

Solubility and polarity parameters for pyridinecarboxamides and their complexes with copper(II) as determined by inverse gas chromatography 740(1996)253

Extraction resins

Comparison of the performance of solid-phase extraction techniques in recovering organophosphorus and organochlorine compounds from water 725(1996)93

F

Factor analysis

Structure-retention relationships of steroid hormones in reversed-phase liquid chromatography and micellar electrokinetic capillary chromatography 728(1996)83

New stationary phases for the high-performance liquid chromatographic separation of nucleosides and cyclic nucleotides 728(1996)201

Factorial design

Determination of chiral reagent purity by capillary electrophoresis 715(1995)151

Derivatization of dipeptides with 4-fluoro-7-nitro-2,1,3-benzoxadiazole for laser-induced fluorescence and separation by micellar electrokinetic chromatography 716(1995)389

Micellar electrokinetic capillary chromatography of fungal metabolites. Resolution optimized by experimental design 721(1996)337

Factorial design approach to studying the high-performance liquid chromatographic chiral separation of N-arylthiazolin-2-(thi)one atropisomers on CHIRALCEL OJ 722(1996)177

Optimization of supercritical fluid extraction of phenol and cresols in soil samples 723(1996)123

Optimization of supercritical fluid extraction-gas chromatography of methylmercury in marine samples 750(1996)191

Fats

Gel permeation chromatography-high-performance liquid chromatography combination as an automated clean-up technique for the multiresidue analysis of fats 737(1996)9

Rapid, quantitative determination of polar compounds in fats and oils by solid-phase extraction and size-exclusion chromatography using monostearin as internal standard 749(1996)55

Feed additives

Determination of anionic feed additives by two-dimensional capillary isotachopheresis 737(1996)255

Fermentation

On-line monitoring of biotechnological processes by gas chromatographic-mass spectrometric analysis of fermentation suspensions 750(1996)141

Fermentation broth

High-performance liquid chromatography of amino acids in copper(II) complex form: application to valine fermentation samples 722(1996)311

Determination of 2-keto-L-gulonic, 2-keto-D-gluconic and 2,5-diketo-D-gluconic acids by capillary zone electrophoresis 745(1996)249

Fermentation media

Determination of inorganic cations in fermentation and cell culture media using cation-exchange liquid chromatography and conductivity detection 718(1995)319

Fertilizers

Isocratic ion-pair high-performance liquid chromatographic method for the determination of various iron(III) chelates 727(1996)253

Fiber optic sensors

Evaluation of the potential usefulness of in situ fiber optic sensors for column monitoring in chromatographic separations and purifications 736(1996)51

Field-flow fractionation

Determination of the compositional heterogeneity of polydisperse polymer samples by the coupling of size-exclusion chromatography and thermal field-flow fractionation 703(1995)245

Free-solution electrophoresis with amplification of small mobility differences by helical flow 707(1995)87

Influence of bulk and surface composition on the retention of colloidal particles in thermal field-flow fractionation 715(1995)117

Experimental study on the separation of silica gel supports by gravitational field-flow fractionation. II. Sample preparation, stop-flow procedure and overloading effect 715(1995)259

Influence of injected mass and ionic strength on retention of water-soluble polymers and proteins in hollow-fibre flow field-flow fractionation 732(1996)307

Determination of adsorption characteristics of the nutrient orthophosphate to natural colloids by sedimentation field-flow fractionation 733(1996)105

Experimental study on the retention of silica particles in gravitational field-flow fractionation 740(1996)245

High-speed particle separation and steric inversion in thin flow field-flow fractionation channels 746(1996)137

Field gradient focusing

Focusing proteins in an electric field gradient 229(1996)229

Field laboratories

Portable liquid chromatograph for mobile laboratories. I. Aims 728(1996)387

Field screening

A new fast method for field screening of polychlorinated biphenyls in air 750(1996)151

Finger-print catalogue

Capillary electrophoresis for a "finger-print" characterization of fulvic and humic acids 723(1996)215

Fish

Determination of organophosphorus pesticides in environmental samples by capillary gas chromatography-mass spectrometry 709(1995)319

Enrichment of chlorinated fatty acids in fish lipids prior to analysis by capillary gas chromatography with electrolytic conductivity detection and mass spectrometry 731(1996)225

- Fish oil**
Preparative-scale liquid chromatographic separation of ω -3 fatty acids from fish oil sources 702(1995)215
- Flame photometric detection**
Converting a single-channel flame photometric detector to triple-channel operation 721(1996)365
Analyte noise in the flame photometric detector 724(1996)251
Time-integrated spectra from a flame photometric detector 724(1996)255
- Flame photometric detection, dual channel**
Dual-channel flame photometric detector for sensitive spectrum acquisition and variable-wavelength operation 734(1996)405
- Flash chromatography**
Modified and convenient preparation of silica impregnated with silver nitrate and its application to the separation of steroids and triterpenes 715(1995)372
Flash chiral chromatography with cellulose tris(3,5-dimethylphenylcarbamate)-coated phases 728(1996)195
Laboratory-scale purification of microcystins using flash chromatography and reversed-phase high-performance liquid chromatography 734(1996)163
Automated purification of microcystins 734(1996)175
- Flow-cell interface**
Comparison of direct deposition and flow-cell gas chromatography-Fourier transform infrared spectrometry of barbiturates 703(1995)383
- Flow-cells**
Laser-induced fluorescence detection of native-fluorescent analytes in column liquid chromatography, a critical evaluation 704(1995)1
- Flow control/collection device**
Variable flow control and collection device for use with supercritical fluids 738(1996)241
- Flow-injection analysis**
Selectable-power photoreactor for flow-injection analysis systems and high-performance liquid chromatography post-column photochemical derivatization 724(1996)55
- Flow injection analysis-mass spectrometry**
2-Phosphoglycolate and glycolate-electrophore detection, including detection of 87 zeptomoles of the latter by gas chromatography-electron-capture mass spectrometry 721(1996)289
- Flow microcalorimetry**
Lectin-glycoenzyme column chromatography monitored by enzyme flow microcalorimetry 722(1996)143
- Flow patterns**
Study of the flow development during the slurry packing of microcolumns for liquid chromatography 728(1996)33
- Flow pores**
Superporous agarose, a new material for chromatography 734(1996)231
- Flow-rate**
Complete design of a simulated moving bed 702(1995)97
Influence of flow-rate on the chromatographic performance of agarose- and cellulose-based anion-exchange media 734(1996)137
Fast, reproducible size-exclusion chromatography of biological macromolecules 743(1996)43
- Flow velocity distribution**
Column radial homogeneity in high-performance liquid chromatography 740(1996)169
- Fluorescence detection**
Planar chromatography coupled with spectroscopic techniques 703(1995)613
Post-column reaction system for fluorescence detection in capillary electrophoresis 716(1995)123
Postcolumn excitation of aflatoxins using cyclodextrins in liquid chromatography for food analysis 721(1996)69
Evaluation of the potential usefulness of in situ fiber optic sensors for column monitoring in chromatographic separations and purifications 736(1996)51
In-column versus on-column fluorescence detection in capillary electrochromatography 737(1996)171
Effect of fluorescence intensifiers on the fluorodensitometric determination of flavones and flavonols after detection with diphenylboric acid 2-aminoethyl ester 740(1996)99
Column radial homogeneity in high-performance liquid chromatography 740(1996)169
- Fluorescence intensity**
Laser-induced fluorescence detection of native-fluorescent analytes in column liquid chromatography, a critical evaluation 704(1995)1
- Fluoroapatite**
Simultaneous solvent extraction and high-performance liquid chromatographic determination of uranium, iron, nickel and copper in mineral ore samples and phosphate rock residues using N,N'-ethylenebis(salicylaldimine) as complexing reagent 740(1996)296
- Fluorophore-assisted carbohydrate electrophoresis**
Fluorophore-assisted carbohydrate electrophoresis. Technology and applications 705(1995)89

Food additives

Determination of synthetic colourant food additives by capillary zone electrophoresis 718(1995)448

Food analysis

On-line dialysis with high-performance liquid chromatography for the automated preparation and analysis of sugars and organic acids in foods and beverages 705(1995)195

Study of aroma compound–natural polymer interactions by dynamic coupled column liquid chromatography 707(1995)181

Rapid gas chromatographic screening of edible seeds, nuts and beans for non-protein and protein amino acids 708(1995)131

Determination of aliphatic aldehydes as their thiazolidine derivatives in foods by gas chromatography with flame photometric detection 709(1995)303

Steam distillation–solvent extraction, a selective sample enrichment technique for the gas chromatographic–electron-capture detection of organochlorine compounds in milk powder and other milk products 712(1995)355

Improvement in the determination of food additive dyestuffs by capillary electrophoresis using β -cyclodextrin 715(1995)179

Determination of cholesterol in milk fat by supercritical fluid chromatography 715(1995)333

Optimization of the separation of β -agonists by capillary electrophoresis on untreated and C_{18} bonded silica capillaries 715(1995)345

Method development and validation for the determination of mineral elements in food and botanical materials by capillary electrophoresis 717(1995)415

Matrix solid-phase dispersion extraction procedure for multiresidue pesticide analysis in oranges 719(1996)95

Isocratic high-performance liquid chromatographic method for quantitative determination of lysine, histidine and tyrosine in foods 719(1996)195

Isolation by solid-phase extraction and liquid chromatographic determination of mutagenic amines in beef extracts 719(1996)203

Identification of fatty acids in edible wild plants by gas chromatography 719(1996)229

High-performance liquid chromatographic quantitation of phloridzin in apple seed, leaf and callus 719(1996)444

Isocratic high-performance liquid chromatographic determination of tryptophan in infant formulas 721(1996)83

Determination of imidacloprid in vegetables by high-performance liquid chromatography with diode-array detection 721(1996)97

Determination of sulphonamides in foods by liquid chromatography with postcolumn fluorescence derivatization 726(1996)125

Simple and rapid determination of the herbicides glyphosate and glufosinate in river water, soil and carrot samples by gas chromatography with flame photometric detection 726(1996)253

Applications of liquid chromatography–mass spectrometry interfacing systems in food analysis: pesticide, drug and toxic substance residues 727(1996)153

Simultaneous high-performance liquid chromatographic determination of ochratoxin A and citrinin in cheese by time-resolved luminescence using terbium 727(1996)185

Solid-phase extraction and high-performance liquid chromatographic determination of polyphenols in apple musts and ciders 727(1996)203

High-performance liquid chromatographic evaluation of biogenic amines in foods 729(1996)363

Prefractionation of aroma extracts from fat-containing food by high-performance size-exclusion chromatography 729(1996)371

High-performance liquid chromatographic–electrospray mass spectrometric analysis of phenolic acids and aldehydes 730(1996)31

Solid-phase extraction for the selective isolation of polycyclic aromatic hydrocarbons, azaarenes and heterocyclic aromatic amines in charcoal-grilled meat 731(1996)85

Determination of alternariol and alternariol methyl ether in apple juice using solid-phase extraction and high-performance liquid chromatography 731(1996)109

Preparation of Cu(II) complexes of oxidized chlorophylls and their determination by thin-layer and high-performance liquid chromatography 731(1996)261

Capillary electrophoresis of Cheddar cheese 731(1996)305

High-performance liquid chromatographic determination of the biologically active principle hypericin in phytotherapeutic vegetable extracts and alcoholic beverages 731(1996)336

Use of immunoaffinity chromatography as a simplified cleanup technique for the liquid chromatographic determination of phenylurea herbicides in plant material 732(1996)277

Determination of the mycotoxin moniliformin in cereals by high-performance liquid chromatography and fluorescence detection 732(1996)291

High-performance liquid chromatographic separation of carminic acid, α - and β -bixin, and α - and β -norbixin, and the determination of carminic acid in foods 732(1996)394

- Determination of monocyclic aromatic hydrocarbons in fruit and vegetables by gas chromatography–mass spectrometry 734(1996)297
- Characterization of phenolic and secoiridoid aglycons present in virgin olive oil by gas chromatography–chemical ionization mass spectrometry 736(1996)195
- Determination of fluoroacetate in aqueous samples by headspace gas chromatography 736(1996)229
- Micellar electrokinetic chromatography as a screening method for the analysis of vanilla flavourings and vanilla extracts 736(1996)321
- Determination of carboxylic acids and inorganic anions in wines by ion-exchange chromatography 736(1996)351
- Accreditation in the UK for pesticide residue analysis in foods 737(1996)3
- Determination of biogenic amines in wine after precolumn derivatization with 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate 737(1996)205
- Rapid multiresidue screening method for the determination of pesticides in plant materials 737(1996)215
- Determination of plasticisers in food by gas chromatography–mass spectrometry with ion-trap mass detection 737(1996)338
- High-performance thin-layer chromatographic method for the fluorescence detection of three nitroimidazole residues in pork and poultry tissue 737(1996)343
- Determination of cations in fruit juices and purées by ion chromatography 739(1996)175
- Separation and determination of amino acids, creatinine, bioactive amines and nucleic acid bases by dual-mode gradient ion-pair chromatography 739(1996)333
- Determination of amino acids in the foods by reversed-phase high-performance liquid chromatography with a new precolumn derivative, butylthiocarbamyl amino acid, compared to the conventional phenylthiocarbamyl derivatives and ion-exchange chromatography 740(1996)31
- Determination of protein amino acids as benzylthiocarbamyl derivatives compared with phenylthiocarbamyl derivatives by reversed-phase high-performance liquid chromatography, ultraviolet detection and precolumn derivatization 740(1996)41
- Decay study of pesticide residues in apple samples 740(1996)146
- Determination of some pharmacologically active phenolic acids in juices by high-performance liquid chromatography 741(1996)223
- High-performance liquid chromatographic determination of 2-furaldehyde and 5-hydroxymethyl-2-furaldehyde in honey 749(1996)95
- Fat content for nutritional labeling by supercritical fluid extraction and an on-line lipase catalyzed reaction 750(1996)201
- Automated on-line solid-phase extraction–high-performance liquid chromatography–diode array detection of phenolic compounds in sherry wine 750(1996)209
- Determination of polycyclic aromatic hydrocarbons in edible oils and fats by on-line donor–acceptor complex chromatography and high-performance liquid chromatography with fluorescence detection 750(1996)263
- Automated on-line gel permeation chromatography–gas chromatography for the determination of organophosphorus pesticides in olive oil 750(1996)275
- On-line high-performance liquid chromatography–solvent evaporation–high-performance liquid chromatography–capillary gas chromatography–flame ionisation detection for the analysis of mineral oil polyaromatic hydrocarbons in fatty foods 750(1996)361
- Pesticide residue analysis in foodstuffs applying capillary gas chromatography with atomic emission detection. State-of-the-art use of modified multimethod S19 of the Deutsche Forschungsgemeinschaft and automated large-volume injection with programmed-temperature vaporization and solvent venting 750(1996)369
- Extraction of maleic hydrazide residues from potato crisps and their determination using high-performance liquid chromatography with UV and atmospheric pressure chemical ionisation mass spectrometric detection 750(1996)391
- Food packaging**
Qualitative liquid chromatographic–atmospheric-pressure chemical-ionisation mass spectrometric analysis of polyethylene terephthalate oligomers 712(1995)191
- Forensic analysis**
Determination of a trace amount of cocaine on a bank note by gas chromatography–positive-ion chemical-ionization mass spectrometry 731(1996)355
- Complementary use of capillary zone electrophoresis and micellar electrokinetic capillary chromatography for mutual confirmation of results in forensic drug analysis 735(1996)227
- Fourier-transform infrared spectrometry**
Multispectral detection for gas chromatography 703(1995)335
- Comparison of direct deposition and flow-cell gas chromatography–Fourier transform infrared spectrometry of barbiturates 703(1995)383

Performance characteristics of a real-time direct deposition supercritical fluid chromatography–Fourier transform infrared spectrophotometry system 703(1995)503

Supercritical fluid extraction coupled directly with Fourier transform infrared spectrometry 703(1995)537

Planar chromatography coupled with spectroscopic techniques 703(1995)613

Fourier-transform photoacoustic spectroscopy

Planar chromatography coupled with spectroscopic techniques 703(1995)613

Fractal dimension

Efficiency of chemical oligonucleotide synthesis evaluated by ion-exchange high-performance liquid chromatography 706(1995)405

Fractals for multicyclic synthesis conditions of biopolymers 739(1996)431

Fraction collector

All-metal collection system for preparative-scale gas chromatography. Purification of low-boiling-point compounds 702(1995)243

Free energy of transfer

Revisionist look at solvophobic driving forces in reversed-phase liquid chromatography. III. Comparison of the behavior of nonpolar and polar solutes 724(1996)1

Frequency response analysis

Liquid chromatographic process identification using pulse testing techniques. Applications to column standardization and scale-up 718(1995)1

Frontal analysis

Role of binding capacity versus binding strength in the separation of chiral compounds on protein-based high-performance liquid chromatography columns 725(1996)273

Influence of the concentration dependence of the mass transfer properties on the chromatographic band profiles 728(1996)15

Influence of the concentration dependence of the mass transfer properties on chromatographic band profiles 731(1996)1

Non-linear waves in chromatography (Review) 734(1996)7

Critical evaluation of the applicability of capillary zone electrophoresis for the study of hapten–antibody complex formation 744(1996)195

Frontal chromatography

Effect of stationary phase on preparative protein separation in reversed-phase chromatography 702(1995)157

Fronting

Calculation of the composition of sample zones in capillary zone electrophoresis 741(1996)265

Fruit juices

Extraction and measurement of prominent flavonoids in orange and grapefruit juice concentrates 705(1995)247

Use of ion chromatography for the measurement of organic acids in fruit juices 706(1995)395

Application and optimization of capillary zone electrophoresis in vitamin analysis 717(1995)255

Determination of mono-, poly- and hydroxy-carboxylic acid profiles of beverages as their 2-nitrophenylhydrazides by reversed-phase ion-pair chromatography 721(1996)261

Determination of alternariol and alternariol methyl ether in apple juice using solid-phase extraction and high-performance liquid chromatography 731(1996)109

Determination of cations in fruit juices and purées by ion chromatography 739(1996)175

Determination of some pharmacologically active phenolic acids in juices by high-performance liquid chromatography 741(1996)223

Fruits

Analysis of bitter essential oils from orange and grapefruit by high-performance liquid chromatography with microbore columns 730(1996)9

Determination of monocyclic aromatic hydrocarbons in fruit and vegetables by gas chromatography–mass spectrometry 734(1996)297

Fungal cultures

Simple and sensitive high-performance liquid chromatography–fluorescence method for the determination of citrinin. Application to the analysis of fungal cultures and cheese extracts 723(1996)69

Fungal metabolites

Micellar electrokinetic capillary chromatography of fungal metabolites. Resolution optimized by experimental design 721(1996)337

Fusarium

Simultaneous high-performance liquid chromatographic determination of visoltricin, acuminatopyrone and chlamydosporols in *Fusarium* cultures on maize 730(1996)69

Determination of the *Fusarium* mycotoxin beauvericin at $\mu\text{g}/\text{kg}$ levels in corn by high-performance liquid chromatography with diode-array detection 746(1996)233

G

Gas chromatography, comprehensive multidimensional

Comprehensive multi-dimensional gas chromatography
703(1995)327

Gas chromatography–Fourier transform infrared spectroscopy

Identification of compounds relevant to the chemical weapons convention using selective gas chromatography detectors, gas chromatography–mass spectrometry and gas chromatography–Fourier transform infrared spectroscopy in an international trial proficiency test 742(1996)191

Gas chromatography–mass spectrometry

Integrated system for on-line gas and liquid chromatography with a single mass spectrometric detector for the automated analysis of environmental samples 730(1996)353

Identification of compounds relevant to the chemical weapons convention using selective gas chromatography detectors, gas chromatography–mass spectrometry and gas chromatography–Fourier transform infrared spectroscopy in an international trial proficiency test 742(1996)191

On-line monitoring of biotechnological processes by gas chromatographic–mass spectrometric analysis of fermentation suspensions 750(1996)141

Coupling of thermal desorption in modified closeable sampling columns with wide-bore capillary gas chromatography and mass spectrometric detection 750(1996)239

Gas oils

Determination of elemental sulfur by size-exclusion chromatography 740(1996)237

Gas standard

Development of gas standards from solid 1,4-dichlorobenzene 710(1995)229

Gel electrophoresis, capillary

Capillary gel electrophoretic separation of DNA restriction fragments in a discontinuous buffer system 744(1996)321

Gels

Comparison of ampholytes used for slab gel and capillary isoelectric focusing of recombinant tissue-type plasminogen activator glycoforms 744(1996)279

Gene assembly

Efficiency of chemical oligonucleotide synthesis evaluated by ion-exchange high-performance liquid chromatography 706(1995)405

Fractals for multicyclic synthesis conditions of biopolymers 739(1996)431

Gene dosage

Gene dosage in capillary electrophoresis: pre-natal diagnosis of Down's syndrome 718(1995)405

Genes

Fluorescence-based polymerase chain reaction–single-strand conformation polymorphism analysis of p53 gene by capillary electrophoresis 744(1996)311

Geochemistry

Pitfalls in the chromatographic determination of the alkenone U_{37}^k index for paleotemperature estimation 723(1996)285

Geological materials

Detection of iodide in geologic materials by high-performance liquid chromatography 706(1995)215

Separation of chromate and tungstate by reversed-phase high-performance chromatography using rutin as chelating reagent 709(1995)381

Pitfalls in the chromatographic determination of the alkenone U_{37}^k index for paleotemperature estimation 723(1996)285

Determination of volatile sulphur species in soil samples of interest for prospecting for metal sulphide deposits 726(1996)161

Geometrical isomers

Capability of a polymeric C_{30} stationary phase to resolve *cis*–*trans* carotenoid isomers in reversed-phase liquid chromatography 707(1995)205

Glycerol as a new dissolution medium for α -, β - and γ -cyclodextrins for preparing stereoselective stationary phases for gas–liquid chromatography 715(1995)309

Ginseng

High-performance liquid chromatographic analysis of ginseng saponins using evaporative light scattering detection 736(1996)77

Glycol methacrylate, 8-hydroxyquinoline derivatized

Separation of Pd(II) and Cu(II) in chloride solutions on a glycol methacrylate gel derivatized with 8-hydroxyquinoline 706(1995)159

Glycosylation

Effect of glycosylation on the heparin-binding capability of boar and stallion seminal plasma proteins 711(1995)167

Differences in the glycosylation of recombinant and native human milk bile salt-stimulated lipase revealed by peptide mapping 718(1995)53

Application of high-performance liquid chromatography–electrospray ionization mass spectrometry and matrix-assisted laser-desorption ionization time-of-flight mass spectrometry in combination with selective enzymatic modifications in the characterization of glycosylation patterns in single-chain plasminogen activator 732(1996)27

Reversed-phase high-performance liquid chromatographic separation of bovine κ -casein macropeptide and characterization of isolated fractions 743(1996)123

Application of multidimensional affinity high-performance liquid chromatography and electrospray ionization liquid chromatography–mass spectrometry to the characterization of glycosylation in single-chain plasminogen activator 750(1996)35

Gradient elution

Macrocycle-based column for the separation of inorganic cations by ion chromatography 706(1995)69

High-performance liquid chromatographic purification of extremely hydrophobic peptides: transmembrane segments 711(1995)181

Improved baselines in gradient elution 718(1995)429

Initial experiments in high-performance liquid chromatographic method development. I. Use of a starting gradient run 721(1996)3

Multicomponent interferences in overloaded gradient elution chromatography 724(1996)27

Optimization of preparative ion-exchange chromatography of proteins: linear gradient separations 725(1996)295

Comparison of methods for extracting linear solvent strength gradient parameters from gradient chromatographic data 727(1996)1

Characterization of low-molar-mass polymers by gradient polymer elution chromatography 746(1996)211

Gradient multiple development

Computer-aided optimization of gradient multiple development thin-layer chromatography. III. Multi-stage development over a constant distance 726(1996)185

Gradient polymer elution chromatography

Determination of the chemical composition distribution of copolymers of styrene and butadiene by gradient polymer elution chromatography 736(1996)125

Graphitized carbon

High-performance liquid chromatographic separation of carbohydrates on graphitized carbon columns 720(1996)119

Graphitized carbon black

Evaluation of two new examples of graphitized carbon blacks for use in solid-phase extraction cartridges 733(1996)41

Trace determination of phenols in natural waters. Extraction by a new graphitized carbon black cartridge followed by liquid chromatography and re-analysis after phenol derivatization 733(1996)383

Gravitational field-flow fractionation

Experimental study on the separation of silica gel supports by gravitational field-flow fractionation. II. Sample preparation, stop-flow procedure and overloading effect 715(1995)259

Gymnodinium breve

On-line liquid chromatography–electrospray ionization mass spectrometry for determination of the brevetoxin profile in natural “red tide” algae blooms 750(1996)115

H

Haemofiltration

Isolation of haemorphin-related peptides from filter membranes collected in connection with haemofiltration of human subjects 723(1996)43

Halobacterium salinarium

Purification of unstable proteins from *Halobacterium salinarium* crude cell extracts: combined cell disruption and desalting by a hollow-fiber membrane module as an access to perform ion-exchange chromatography 711(1995)175

Hard disk drive leads

Analysis of low-level anions in water extracts of hard disk drive heads by capillary electrophoresis 745(1996)81

Headspace analysis

Headspace sampling and gas chromatographic–mass spectrometric determination of amphetamine and methamphetamine in betel 715(1995)325

Continuous chromatomembrane headspace analysis 725(1996)351

Complementarity of purge-and-trap and head-space capillary gas chromatographic methods for determination of methyl-*tert*-butyl ether in water 726(1996)153

Determination of fluoroacetate in aqueous samples by headspace gas chromatography 736(1996)229

Development of a whole headspace injection method for the determination of volatile organic compounds in water 746(1996)83

Headspace solid-phase microextraction

Analysis of chloro- and nitroanilines and -benzenes in soils by headspace solid-phase microextraction 746(1996)71

Heart-cutting techniques

Resolution of complex mixtures of non-flavonoid polyphenols by column-switching high-performance liquid chromatography using octadecylsilica and graphitized carbon columns 724(1996)67

Systematic approach to generic matrix elimination via "heart-cut" column-switching techniques 739(1996)43

Heat dissipation

Buffer capacity, ionic strength and heat dissipation in capillary electrophoresis 744(1996)147

Heated oils

Gas chromatographic properties of cyclic dienoic fatty acids formed in heated linseed oil 723(1996)349

Heat generation

Rectangular capillary electrophoresis: study of some dispersive effects 737(1996)243

Helical flow

Free-solution electrophoresis with amplification of small mobility differences by helical flow 707(1995)87

Heparin-silicas

Characterisation of silica-based heparin-affinity adsorbents through column chromatography of plasma fractions containing thrombin 743(1996)145

Hepatitis C virus antigen

Comparative peptide mapping of a hepatitis C viral recombinant protein by capillary electrophoresis and matrix-assisted laser desorption time-of-flight mass spectrometry 744(1996)177

High salinity groundwaters

Suppressed ion chromatographic analysis of anions in environmental waters containing high salt concentrations (Review) 733(1996)73

High-speed liquid chromatography

High-speed high-performance liquid chromatography of peptides and proteins 705(1995)3

Histidine-metal interactions

Multipoint binding in metal-affinity chromatography 725(1996)225

Hodograph transform

On non-linear waves in chromatography 734(1996)3

Hold-up times

Simple and efficient methane-marker devices for chromatographic samples 721(1996)157

Hollow fibre membrane module

Purification of unstable proteins from *Halobacterium salinarum* crude cell extracts: combined cell disruption and desalting by a hollow-fiber membrane module as an access to perform ion-exchange chromatography 711(1995)175

Honey

Contribution of high-performance liquid chromatographic analysis of carbohydrates to authenticity testing of honey 706(1995)353

High-performance liquid chromatographic determination of 2-furaldehyde and 5-hydroxymethyl-2-furaldehyde in honey 749(1996)95

Horse doping control

Detection of non-steroidal anti-inflammatory drugs in equine plasma and urine by gas chromatography-mass spectrometry 719(1996)251

Host-guest complexation

Capillary zone electrophoretic separation of the enantiomers of dipeptides based on host-guest complexation with a chiral crown ether 709(1995)81

Separation of synthetic food colourants by capillary zone electrophoresis in a hydrodynamically closed separation compartment 724(1996)327

Host-guest interaction

Plots of relative retention against solute boiling points may indicate host-guest interactions with modified cyclodextrin gas chromatographic phases 732(1996)408

H-Point standard additions method

H-Point standard additions method for resolution of overlapping chromatographic peaks with diode array detection by using area measurements 726(1996)57

Human immunodeficiency virus

Isolation of anti-HIV-1 lignans from *Larrea tridentata* by counter-current chromatography 719(1996)353

Rapid and sensitive determination of zidovudine and zidovudine glucuronide in human plasma by ion-pair high-performance liquid chromatography 721(1996)127

Simultaneous determination of L-702,007, a HIV-1 reverse transcriptase inhibitor, and its 6-hydroxy metabolite in human plasma by column-switching high-performance liquid chromatography with fluorescence detection 729(1996)211

Humulus lupulus

Preparative regime for the purification of bitter acids derived from hops (*Humulus lupulus* L.) 731(1996)327

Hybrid selection

Hybrid selection with cDNA-silica 742(1996)87

Hydrodynamically closed separation compartment

Separation of synthetic food colourants by capillary zone electrophoresis in a hydrodynamically closed separation compartment 724(1996)327

Hydrodynamic chromatography

Packed-column hydrodynamic chromatography using 1- μ m non-porous silica particles 740(1996)159

Hydrodynamic dispersion

Numerical simulation of hydrodynamic dispersion in random porous media 707(1995)35

Hydrogen bonding

Hydrogen-bonding interaction in capillary electrophoresis using polyether matrices 711(1995)305

Hydrogen-deuterium exchange

Studies of hydrogen/deuterium exchange of monodeuteriophenol in fused-silica capillary columns using gas chromatography-mass spectrometry 719(1996)474

Hydrophilic interaction

Recent progress in carbohydrate separation by high-performance liquid chromatography based on hydrophilic interaction 720(1996)75

Hydrophilic interaction chromatography

Hydrophilic interaction chromatography on amino-silica phases complements reversed-phase high-performance liquid chromatography and capillary electrophoresis for peptide analysis 724(1996)378

Hydrophilic interaction liquid chromatography

Separation of acetylated core histones by hydrophilic-interaction liquid chromatography 743(1996)137

Hydrophobic interaction chromatography

Preparation of a hydrophobic porous membrane containing phenyl groups and its protein adsorption performance 718(1995)27

Recent progress in reversed-phase and hydrophobic interaction chromatography of carbohydrate species 720(1996)93

Hydrophobic interactions

Solution properties of polyelectrolytes. XII. Semi-quantitative approach to mixed electrostatic and hydrophobic polymer-gel interactions 721(1996)203

Hydrophobicity

see also Lipophilicity

Ion-exclusion chromatography with conductimetric detection of aliphatic carboxylic acids on an H⁺-form cation-exchange resin column by elution with polyols and sugars 706(1995)385

Properties of immobilized-liposome-chromatographic supports for interaction analysis 711(1995)33

Chromatographic quantification of hydrophobicity using micellar mobile phases 718(1995)273

Quantitative structure-activity relationships studies with micellar electrokinetic chromatography. Influence of surfactant type and mixed micelles on estimation of hydrophobicity and bioavailability 721(1996)323

Quantitative structure-retention relationships in the examination of the topography of the binding site of antihistamine drugs on α_1 -acid glycoprotein 722(1996)25

Relationship between the retention characteristics and physico-chemical parameters of some steroid drugs in reversed-phase high-performance liquid chromatography 728(1996)75

Characterization of wide-pore reversed-phase columns for biopolymer separations. I. Single-parametric evaluation 728(1996)179

Hypericum perforatum

High-performance liquid chromatographic determination of the biologically active principle hypericin in phytotherapeutic vegetable extracts and alcoholic beverages 731(1996)336

Hyphenated techniques

see Special issue index

I**Immobilization**

Synthesis of silica-based heparin-affinity adsorbents 728(1996)149

Immobilized antibodies

Perfusion immunoassay for acetylcholinesterase: analyte detection based on intrinsic activity 711(1995)23

Immobilized artificial membranes

Immobilized-artificial-membrane chromatography: measurements of membrane partition coefficient and predicting drug membrane permeability 728(1996)113

Affinity purification of phospholipase A₂ on immobilized artificial membranes containing and lacking the glycerol backbone 731(1996)139

Immobilized cyclodextrins

Selective immobilization on silica gel of permethylated β -cyclodextrin for liquid chromatography 727(1996)195

Immobilized lectin columns

Fractionation of glycoprotein-derived oligosaccharides by affinity chromatography using immobilized lectin columns 720(1996)251

Immobilized liposome chromatography

Properties of immobilized-liposome-chromatographic supports for interaction analysis 711(1995)33

Immobilized liposome chromatography of drugs on capillary continuous beds for model analysis of drug-membrane interactions 749(1996)13

Immobilized metal-affinity chromatography

Multipoint binding in metal-affinity chromatography 725(1996)225

Immobilized metal ion affinity chromatography

Purification of cysteine-containing synthetic peptides via selective binding of the α -amino group to immobilised Cu^{2+} and Ni^{2+} ions 723(1996)51

Isolation of calcium-binding proteins on selective adsorbents 732(1996)261

Immobilized metallized dyes

Chromatography of bovine lactoserum on the immobilized metallized dye Drimarene Rubine R/K 5BL. Modulation of selectivity by metal exchange and application to purification of milk immunoglobulins 725(1996)237

Immobilized oligonucleotides

Salt-induced immobilizations of DNA oligonucleotides on an epoxide-activated high-performance liquid chromatographic affinity support 726(1996)77

Immobilized platinum

Separation of biotin labeled proteins from their unlabeled counterparts using immobilized platinum affinity chromatography 702(1995)173

Immobilized proteins

Egg yolk riboflavin binding protein as a new chiral stationary phase in high-performance liquid chromatography 704(1995)55

Immunoaffinity

Perfusion immunoassay for acetylcholinesterase: analyte detection based on intrinsic activity 711(1995)23

Immunoaffinity chromatography

Determination of carbendazim in water by high-performance immunoaffinity chromatography on-line with high-performance liquid chromatography with diode-array or mass spectrometric detection 724(1996)207

Use of immunoaffinity chromatography as a simplified cleanup technique for the liquid chromatographic determination of phenylurea herbicides in plant material 732(1996)277

Immunoaffinity ligands

Ligand efficiency in axial and radial flow immunoaffinity chromatography of factor IX 702(1995)191

Immunochemical analysis of bovine growth hormone releasing factor involving reversed-phase high-performance liquid chromatography-immunodetection 743(1996)181

Immunoassays

Enzyme-linked immunosorbent assays in a chromatographic format 743(1996)195

Immunoassays

Immunochemical analysis of bovine growth hormone releasing factor involving reversed-phase high-performance liquid chromatography-immunodetection 743(1996)181

Immunoassays

Immuno-capillary electrophoresis for the characterization of a monoclonal antibody against DNA 744(1996)285

Immunoassays

Selective trace enrichment on immunosorbents for the multiresidue analysis of phenylurea and triazine pesticides 725(1996)107

Impregnated filters

Laboratory validation of a diffusive sampler for the determination of glutaraldehyde in air 710(1995)175

Impregnated surfaces

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Imprinted polymers

Molecular imprinting of acetylated carbohydrate derivatives into methacrylic polymers 707(1995)199

Molecularly imprinted polymers on silica: selective supports for high-performance ligand-exchange chromatography 708(1995)19

Molecularly imprinted uniform-size polymer-based stationary phase for high-performance liquid chromatography 728(1996)139

Inclusion complexes

Gas chromatographic study of the inclusion properties of calixarenes 732(1996)63

Inclusion complex formation constants

Determination of β -cyclodextrin inclusion complex constants for 3,4-dihydro-2-*H*-1-benzopyran enantiomers by capillary electrophoresis 707(1995)311

Chiral separations of underivatized arylpropionic acids by capillary zone electrophoresis with various cyclodextrins. Acidity and inclusion constant determinations 735(1996)311

Indirect detection

Capillary zone electrophoresis with indirect UV detection applying a UV-absorbing counter ion 716(1995)115

Sensitive determination of sugars by capillary zone electrophoresis with indirect UV detection under highly alkaline conditions 716(1995)231

Capillary electrophoretic determination of organic acids with indirect detection 716(1995)291

Separation of polyphosphates and polycarboxylates by capillary electrophoresis in a carrier electrolyte containing adenosine 5'-triphosphate and cetyltrimethylammonium bromide with indirect UV detection 723(1996)197

Capillary electrophoresis of phosphate ester surfactants with adenosine monophosphate and indirect photometric detection 737(1996)315

Capillary electrophoresis of cationic surfactants with tetrazolium violet and of anionic surfactants with adenosine monophosphate and indirect photometric detection 739(1996)405

Change of pH in electrophoretic zones as a cause of peak deformation 742(1996)211

Indirect ultraviolet detection

Migration behaviour of alkali and alkaline-earth metal ion-EDTA complexes and quantitative analysis of magnesium in real samples by capillary electrophoresis with indirect ultraviolet detection 707(1995)343

Induction by machine learning

Teaching a computer ion chromatography from a database of published methods 739(1996)15

Inductively coupled plasma mass spectrometry

Simultaneous determination of chromium(III) and chromium(VI) by ion chromatography with inductively coupled plasma mass spectrometry 706(1995)127

Chromium speciation by anion-exchange high-performance liquid chromatography with both inductively coupled plasma atomic emission spectroscopic and inductively coupled plasma mass spectrometric detection 712(1995)311

Industrial chemicals

Planar chromatography coupled with spectroscopic techniques 703(1995)613

Infant formulas

Isocratic high-performance liquid chromatographic determination of tryptophan in infant formulas 721(1996)83

Infrared spectrometry

Multispectral detection for gas chromatography 703(1995)335

Analysis of structural isomers of polychlorinated phenols in water by liquid-nitrogen-trapping gas chromatography-Fourier transform infrared spectroscopy 733(1996)405

Injection methods

Repetitive liquid injection system for inverse gas chromatography 715(1995)279

Large-volume injection in capillary gas chromatography using a programmed-temperature vaporizing injector in the on-column or solvent-vent injection mode 724(1996)384

Moving boundary electrophoretically mediated microanalysis 726(1996)193

Characteristics of microtrap-based injection systems for continuous monitoring of volatile organic compounds by gas chromatography 727(1996)111

Large-volume injection in residue analysis with capillary gas chromatography using a conventional autosampler and injection by programmed-temperature vaporization with solvent venting 727(1996)275

Capillary electrophoresis of methylmercury with injection by sample stacking 730(1996)345

Simple and versatile injection system for capillary gas chromatographic columns 731(1996)201

Detectability enhancement by the use of large-volume injections in gas chromatography-cryotrapping-Fourier transform infrared spectrometry 732(1996)75

Capillary electrophoretic analyses of drugs in body fluids: sample pretreatment and methods for direct injection of biofluids (Review) 735(1996)29

Enhanced detection sensitivity by large volume injection in reversed-phase micro-high-performance liquid chromatography 742(1996)69

Trace analysis of explosives in water by gas chromatography-mass spectrometry with a temperature-programmed injector 742(1996)205

Origin and correction of bias caused by sample injection and detection in capillary zone electrophoresis 744(1996)103

Pseudo-coulometric loading in capillary electrophoresis DNA sequencing 744(1996)325

Optimised injection techniques for micro and capillary liquid chromatography 746(1996)1

Packed-column supercritical fluid chromatography of a new dihydropyridine drug based on direct injection of emulsion samples 749(1996)193

Vaporising systems for large volume injection or on-line transfer into gas chromatography: classification, critical remarks and suggestions (Review) 750(1996)11

Investigation of parameters affecting the on-line combination of supercritical fluid extraction with capillary gas chromatography 750(1996)215

Injection volume

Fast, reproducible size-exclusion chromatography of biological macromolecules 743(1996)43

Injectors

Analyte adsorption in liquid chromatography valve injectors for samples in non-eluting solvents 726(1996)67

Optimizing split/splitless injection port parameters for solid-phase microextraction 740(1996)139

Ink

Characterization of neutral sugars and uronic acids after methanolysis and trimethylsilylation for recognition of plant gums 720(1996)27

In-line vaporiser–precolumn solvent split

Vaporising systems for large volume injection or on-line transfer into gas chromatography: classification, critical remarks and suggestions (Review) 750(1996)11

Instrumentation

Development of an instrumental configuration for pseudo-electrochromatography–electrospray mass spectrometry 712(1995)201

On-line coupling of micellar electrokinetic chromatography to electrospray mass spectrometry 712(1995)219

Measurement precision and $1/f$ noise in analytical instruments 722(1996)157

Interaction analysis

Properties of immobilized-liposome–chromatographic supports for interaction analysis 711(1995)33

Intercalation

Observations relevant to the differential intercalation of enantiomers between the strands of brush-type chiral stationary phases 719(1996)299

Interfaces

Element-specific chromatographic detection by atomic absorption, plasma atomic emission and plasma mass spectrometry 703(1995)393

Performance of an electrospray-interfaced thermospray ion source in hyphenated techniques 712(1995)211

Investigation of parameters affecting the on-line combination of supercritical fluid extraction with capillary gas chromatography 750(1996)215

Interfaces, CE–MS

Capillary electrophoresis–mass spectrometry 703(1995)667

Analysis of protein fractions by micropreparative capillary isoelectric focusing and matrix-assisted laser desorption time-of-flight mass spectrometry 716(1995)157

Interfaces, GC–FT-IR

Comparison of direct deposition and flow-cell gas chromatography–Fourier transform infrared spectrometry of barbiturates 703(1995)383

Detectability enhancement by the use of large-volume injections in gas chromatography–cryotrapping–Fourier transform infrared spectrometry 732(1996)75

Interfaces, LC–MS

Liquid chromatography–mass spectrometry. General principles and instrumentation 703(1995)37

Column liquid chromatography–mass spectrometry: selected techniques in environmental applications for polar pesticides and related compounds 703(1995)81

Development of an “in-source” thermospray-type interface for on-line capillary liquid chromatography–mass spectrometry 705(1995)205

Liquid chromatography–time-of-flight mass spectrometry with continuous-flow matrix-assisted laser desorption ionization 711(1995)235

Method of increasing the sensitivity of liquid chromatography–atmospheric pressure chemical ionization mass spectrometry using a semi-micro column 715(1995)13

Applications of liquid chromatography–mass spectrometry interfacing systems in food analysis: pesticide, drug and toxic substance residues 727(1996)153

High-performance liquid chromatographic–particle beam mass spectrometric analysis of sesquiterpene lactones with different carbon skeletons 727(1996)211

Adaptation of high-performance liquid chromatographic methods to multiple spectral analyses 728(1996)351

Simultaneous identification of different classes of hydrocarbons and determination of nitro-polycyclic aromatic hydrocarbons by means of particle beam liquid chromatography–mass spectrometry 728(1996)359

Determination of heterocyclic amines by pneumatically assisted electrospray liquid chromatography–mass spectrometry 730(1996)185

Determination of hydroxy polycyclic aromatic hydrocarbons by liquid chromatography–mass spectrometry 731(1996)75

Interfaces, SFC-FT-IR

Performance characteristics of a real-time direct deposition supercritical fluid chromatography-Fourier transform infrared spectrophotometry system 703(1995)503

Interfaces, SFC-MS

Packed column supercritical fluid chromatography-mass spectrometry with particle beam interface aided with particle forming solvent 703(1995)489

Interfacial adsorption

Solvation in weak complexing *n*-octyl phthalate and *n*-octyl tetrachlorophthalate solvents by gas chromatography 726(1996)141

Interlaboratory validation

Improvements in the determination of organophosphorus pesticides in ground- and wastewater samples from interlaboratory studies by automated on-line liquid-solid extraction followed by liquid chromatography-diode array detection 725(1996)85

Liquid chromatographic determination of cephalexin preparations: interlaboratory validation 727(1996)239

Application of multivariate self-modeling curve resolution to the quantitation of trace levels of organophosphorus pesticides in natural waters from interlaboratory studies 730(1996)177

Intra-particle convective velocity

"Perfusion chromatography". The effects of intra-particle convective velocity and microsphere size on column performance 702(1995)45

Intravenous fat emulsions

Erratum Erratum to "Determination of phylloquinone in intravenous fat emulsions and soybean oil by high-performance liquid chromatography" [J. Chromatogr. A, 664 (1994) 189]

Inverse gas chromatography

Solution properties of amorphous co- and terpolymers of styrene as examined by inverse gas chromatography 715(1995)127

Repetitive liquid injection system for inverse gas chromatography 715(1995)279

Influence of prediction method of the second virial coefficient on inverse gas chromatographic parameters 721(1995)139

Solubility and polarity parameters for pyridinecarboxamides and their complexes with copper(II) as determined by inverse gas chromatography 740(1996)253

Inverse size-exclusion chromatography

Study of physico-chemical properties of some packing materials. 731(1996)27

Iodination

Specific determination of tyrosine-phosphorylated proteins and peptides by differential iodination 743(1996)273

Ion chromatography

Recent advances in ion chromatography: A perspective (Review) 739(1996)3

Ion chromatography expert systems

Practical evaluation of ion chromatography methods developed by an expert system 739(1996)25

Ion chromatography optimization

Teaching a computer ion chromatography from a database of published methods 739(1996)15

Ion chromatography system performance

Studies on system performance and sensitivity in ion chromatography 706(1995)3

Ion-exchange chromatography

Optimization of preparative ion-exchange chromatography of proteins: linear gradient separations 725(1996)295

Re-evaluation of strong cation-exchange high-performance liquid chromatography for the analysis of basic drugs 725(1996)335

Ion-exchange chromatography

Separation of acetylated core histones by hydrophilic-interaction liquid chromatography 743(1996)137

Ion-exchange displacement chromatography

Antibiotics as low-molecular-mass displacers in ion-exchange displacement chromatography 707(1995)57

Ion-exchange equilibria

Model for ion-exchange equilibria of macromolecules in preparative chromatography 702(1995)113

Ion-exchange fibers

Study of ion chromatography with ion-exchange fibers as the stationary phase 740(1996)195

Ion-exchange mechanisms

Ion-exchange mechanisms of some transition metals on a mixed-bed resin with a complexing eluent 715(1995)105

Ion-exchange media

Rapid ion chromatographic method for the quantitative determination of ligand leakage from ion-exchange media 742(1996)79

Ion exchangers

see also Anion exchangers

Validation studies in the regeneration of ion-exchange celluloses 702(1995)59

Separation of Pd(II) and Cu(II) in chloride solutions on a glycol methacrylate gel derivatized with 8-hydroxyquinoline 706(1995)159

Studies on the adsorption capacities of proteins with a tentacle-type ion exchanger and their relationship to the stoichiometric retention parameter Z_c 711(1995)43

Separation of small cationic bioactive peptides by strong ion-exchange chromatography 724(1996)137

Determination of Cs-137 in environmental water by ion-exchange chromatography (Review) 733(1996)57

Characterization of protein adsorption by composite silica-polyacrylamide gel anion exchangers 746(1996)169

Characterization of protein adsorption by composite silica-polyacrylamide gel anion exchangers 746(1996)185

Ionic radii

Ion chromatographic separation of alkali metals in organic solvents 706(1995)149

Ionic strength

Ionic strength and charge number correction for mobilities of multivalent organic anions in capillary electrophoresis 709(1995)163

Influence of injected mass and ionic strength on retention of water-soluble polymers and proteins in hollow-fibre flow field-flow fractionation 732(1996)307

Ionization methods

Capillary electrophoresis-mass spectrometry 703(1995)667

Determination of hydroxy polycyclic aromatic hydrocarbons by liquid chromatography-mass spectrometry 731(1996)75

Ionization techniques

Biomedical and biochemical applications of liquid chromatography-mass spectrometry 703(1995)59

Planar chromatography coupled with spectroscopic techniques 703(1995)613

Ion-pair adsorption

Ion-pair chromatography of methotrexate in a column-switching system using an alkyl-diol silica precolumn for direct injection of plasma 742(1996)113

Ion-pairing mechanism

Ion-pairing mechanism in the solid-phase extraction and reversed-phase high-performance liquid chromatographic determination of acidic herbicides in water 728(1996)319

Ion-pairing reagents

Improved peptide mapping using phytic acid as ion-pairing buffer additive in capillary electrophoresis 726(1996)223

Simultaneous determination of chlorpheniramine and maleate by high-performance liquid chromatography using tetra-*n*-butylammonium phosphate as an ion-pair reagent 731(1996)346

Ion-pair reversed-phase high-performance liquid chromatography of algal chlorophylls 738(1996)285

Separation and determination of amino acids, creatinine, bioactive amines and nucleic acid bases by dual-mode gradient ion-pair chromatography 739(1996)333

Determination of choline in pharmaceutical formulations by reversed-phase high-performance liquid chromatography and postcolumn suppression conductivity detection 739(1996)351

Ion-pair adsorption chromatography for process purposes 741(1996)185

Chiral separation in non-aqueous media by capillary electrophoresis using the ion-pair principle 745(1996)37

Perfluorinated acid alternatives to trifluoroacetic acid for reversed-phase high-performance liquid chromatography 746(1996)277

Ion-pair reversed-phase chromatography

Recent progress in reversed-phase and hydrophobic interaction chromatography of carbohydrate species 720(1996)93

Ion source pressure

Effect of ion source pressure on ion formation of carbamates in particle-beam chemical-ionisation mass spectrometry 712(1995)21

Ion-trap mass spectrometry

Determination of plasticisers in food by gas chromatography-mass spectrometry with ion-trap mass detection 737(1996)338

Isocratic elution

Initial experiments in high-performance liquid chromatographic method development. II. Recommended approach and conditions for isocratic separation 721(1996)15

Isoelectric focusing

Isoelectric focusing as a tool for the investigation of post-translational processing and chemical modifications of proteins 705(1995)67

Purification of α -L-arabinofuranosidase using a single-column mini-scale isoelectric focusing unit 705(1995)400

Continuous micropreparative trapping in carrier ampholyte-free isoelectric focusing 709(1995)39

Detection of traces of a trisulphide derivative in the preparation of a recombinant truncated interleukin-6 mutein 709(1995)135

Capillary and rotating-tube isoelectric focusing of a transmembrane protein, the human red cell glucose transporter 711(1995)217

Rapid one-step capillary isoelectric focusing method to monitor charged glycoforms of recombinant human tissue-type plasminogen activator 717(1995)61

Capillary isoelectric focusing as a tool in the examination of antibodies, peptides and proteins of pharmaceutical interest 735(1996)165

Examination of capillary zone electrophoresis, capillary isoelectric focusing and sodium dodecyl sulfate capillary electrophoresis for the analysis of recombinant tissue plasminogen activator 744(1996)155

Comparison of ampholytes used for slab gel and capillary isoelectric focusing of recombinant tissue-type plasminogen activator glycoforms 744(1996)279

Isoelectric focusing as a tool for the investigation of post-translational processing and chemical modifications of proteins 705(1995)67

Isoelectric point

Isoelectric focusing as a tool for the investigation of post-translational processing and chemical modifications of proteins 705(1995)67

Isomer cluster phenomena

Unified equation between Kováts indices on different stationary phases for select types of compounds 731(1996)187

Isomerization

On-column isomerization of sugars during high-performance liquid chromatography: analysis of the elution profile 720(1996)167

Isotachopheresis

Bidirectional isotachopheretic separation of metal cations using EDTA as a chelating agent 709(1995)171

Some practical aspects of utilizing the on-line combination of isotachopheresis and capillary zone electrophoresis 716(1995)35

Intrinsic isotachopheretic preconcentration in capillary gel electrophoresis of DNA restriction fragments 717(1995)139

Isotachopheretic separation of Fe(II) and Fe(III) by using 1,10-phenanthroline as a complex-forming agent 723(1996)389

Determination of some cardiovascular drugs in serum and urine by capillary isotachopheresis 735(1996)403

Isotachopheresis–capillary zone electrophoresis

Some practical aspects of utilizing the on-line combination of isotachopheresis and capillary zone electrophoresis 716(1995)35

Potential of on-line isotachopheresis–capillary zone electrophoresis with hydrodynamic counterflow in the analysis of various basic proteins and recombinant human interleukin-3 734(1996)381

Isotachopheretic initial state

Investigation of matrix effects in capillary zone electrophoresis 734(1996)319

Isotherm data

Reproducibility, accuracy, and correction of isotherm data measured by chromatography 724(1996)39

Isotherms

Effect of the packing pressure on the performance of C_{18} reversed-phase liquid chromatographic columns 743(1996)247

Isotope-specific detection

Element- and isotope-specific detection for high-performance liquid chromatography using chemical reaction interface mass spectrometry 732(1996)189

Isotopes

Micellar electrokinetic chromatography. Perspectives in drug analysis 735(1996)3

Isotopic analysis

High-performance liquid chromatographic separation of pairs of isotopic labeled (deuterium/protium) molecules 731(1996)351

I-tzu-tang

Simultaneous determination of twelve constituents of I-tzu-tang, a Chinese herbal preparation, by high-performance liquid chromatography and capillary electrophoresis 704(1995)141

K

Kinetic studies

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. I. Methodology and validation of the model 726(1996)1

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. II. Slow sorption rate on a microparticle packing 726(1996)25

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. III. Diffusion in the polymer matrix as the cause of slow sorption 726(1996)37

Delayed adsorption on slowly accessible stationary phase surfaces in porous liquid chromatographic column packings 728(1996)97

Peak tailing and mass transfer kinetics in linear chromatography 741(1996)1

Peak tailing and slow mass transfer kinetics in nonlinear chromatography 742(1996)55

Kinetic study on the *cis*–*trans* isomerization of peptidyl–proline dipeptides 744(1996)259

Kinetic investigation of the transformations of indol-3-ylcarbinol into oligomeric indolyl compounds based on micellar electrokinetic capillary chromatography 745(1996)239

Kraft pulping liquor

Determination of 9,10-dihydroxyanthracene and anthraquinone in Kraft pulping liquors by high-performance liquid chromatography 712(1995)372

L

Lactococcus lactis

Use of capillary zone electrophoresis in an investigation of peptide uptake by dairy starter bacteria 718(1995)211

Lactoserum

Chromatography of bovine lactoserum on the immobilized metallized dye Drimarene Rubine R/K 5BL. Modulation of selectivity by metal exchange and application to purification of milk immunoglobulins 725(1996)237

Large-volume injection

Trace level analysis of micropollutants in aqueous samples using gas chromatography with on-line sample enrichment and large volume injection 703(1995)277

Capillary gas chromatographic analysis of nerve agents using large volume injections 723(1996)210

Large-volume injection in capillary gas chromatography using a programmed-temperature vaporizing injector in the on-column or solvent-vent injection mode 724(1996)384

Large-volume injection in residue analysis with capillary gas chromatography using a conventional autosampler and injection by programmed-temperature vaporization with solvent venting 727(1996)275

Simple and versatile injection system for capillary gas chromatographic columns 731(1996)201

Detectability enhancement by the use of large-volume injections in gas chromatography-cryotrapping-Fourier transform infrared spectrometry 732(1996)75

Enhanced detection sensitivity by large volume injection in reversed-phase micro-high-performance liquid chromatography 742(1996)69

Optimised injection techniques for micro and capillary liquid chromatography 746(1996)1

Development of a whole headspace injection method for the determination of volatile organic compounds in water 746(1996)83

Vaporising systems for large volume injection or on-line transfer into gas chromatography: classification, critical remarks and suggestions (Review) 750(1996)11

Automated at-line solid-phase extraction-gas chromatographic analysis of micropollutants in water using the PrepStation 750(1996)161

Larrea tridentata

Isolation of anti-HIV-1 lignans from *Larrea tridentata* by counter-current chromatography 719(1996)353

Laser-induced fluorescence detection

Laser-induced fluorescence detection of native-fluorescent analytes in column liquid chromatography, a critical evaluation 704(1995)1

Separation of formoterol enantiomers and detection of zeptomolar amounts by capillary electrophoresis using laser-induced fluorescence 715(1995)159

Analysis by capillary electrophoresis-laser-induced fluorescence detection of oligosaccharides produced from enzyme reactions 716(1995)215

Nanomolar determination of aminated sugars by capillary electrophoresis 716(1995)221

Separation of 8-aminonaphthalene-1,3,6-trisulfonic acid-labelled neutral and sialylated N-linked complex oligosaccharides by capillary electrophoresis 716(1995)241

Utilization of fluorescein sodium salt in laser-induced indirect fluorimetric detection. II. Application to organic anions 716(1995)279

Study of the racemization of L-serine by cyclodextrin-modified micellar electrokinetic chromatography and laser-induced fluorescence detection 716(1995)331

Studies of complexes between proteases, substrates and the protease inhibitor α_2 -macroglobulin using capillary electrophoresis with laser-induced fluorescence detection 716(1995)363

Derivatization of dipeptides with 4-fluoro-7-nitro-2,1,3-benzoxadiazole for laser-induced fluorescence and separation by micellar electrokinetic chromatography 716(1995)389

Child cerebrospinal fluid analysis by capillary electrophoresis and laser-induced fluorescence detection 717(1995)293

Trace analysis of fluorescein-derivatized phenoxy acid herbicides by micellar electrokinetic chromatography with laser-induced fluorescence detection 717(1995)299

Separation of tryptophan and related indoles by micellar electrokinetic chromatography with KrF laser-induced fluorescence detection 718(1995)203

Separation of hemoglobin variants in single human erythrocytes by capillary electrophoresis with laser-induced native fluorescence detection 718(1995)397

Determination of 4-hydroxy-2-nonenal by precolumn derivatization and liquid chromatography with laser fluorescence detection 719(1996)450

2-Phosphoglycolate and glycolate-electrophore detection, including detection of 87 zeptomoles of the latter by gas chromatography–electron-capture mass spectrometry 721(1996)289

Postcolumn reactor in capillary electrophoresis for laser-induced fluorescence detection 734(1996)331

Time-resolved photon-counting fluorimetry with a semiconductor laser for capillary electrophoresis 727(1996)330

Capillary electrophoresis–laser-induced fluorescence detection of amphetamine in the brain 735(1996)263

Analysis of monoclonal antibody and immunoconjugate digests by capillary electrophoresis and capillary liquid chromatography 735(1996)357

Evaluation of extended light path capillaries for use in capillary electrophoresis with laser-induced fluorescence detection 736(1996)239

Application of an avalanche photodiode in a near-Geiger operation as a fluorescence detector for capillary electrophoresis 744(1996)31

Herbicide analysis by micellar electrokinetic capillary chromatography 745(1996)201

Argon-laser-induced fluorescence detection in sodium dodecyl sulfate-capillary gel electrophoretic separations of proteins 746(1996)109

Laser-induced fluorescence detector, ball-lens

Ball-lens laser-induced fluorescence detector as an easy-to-use highly sensitive detector for capillary electrophoresis. Application to the identification of biogenic amines in dairy products 717(1995)335

Laser-induced resonance energy transfer

Laser induced resonance energy transfer – a novel approach towards achieving high sensitivity in capillary electrophoresis 744(1996)37

Laser light-scattering detection

Absolute on-line molecular mass analysis of basic fibroblast growth factor and its multimers by reversed-phase liquid chromatography with multi-angle laser light scattering detection 740(1996)215

Lattice-fluid models

Solute retention in gas and supercritical fluid chromatography versus pairwise interactions within the system: a numerical treatment in perturbations of molecular parameters 738(1996)101

Leather

Determination of pentachlorophenol in leather using supercritical fluid extraction with in situ derivatization 718(1995)131

Lemon peel

Identification of nonvolatile components in lemon peel by high-performance liquid chromatography with confirmation by mass spectrometry and diode-array detection 718(1995)89

Lepidobatrachus laevis

Pre-column derivatization of proteins to enhance detection sensitivity for sodium dodecyl sulfate non-gel sieving capillary electrophoresis 715(1995)167

Ligand-exchange chromatography

Ligand-exchange chromatography of carbohydrates and glycoconjugates 720(1996)127

Ligand leakage

Rapid ion chromatographic method for the quantitative determination of ligand leakage from ion-exchange media 742(1996)79

Ligase chain reaction products

Analysis of ligase chain reaction products amplified in a silicon–glass chip using capillary electrophoresis 732(1996)151

Light-emitting diode-based detectors

Simple double-beam absorption detection systems for capillary electrophoresis based on diode lasers and light-emitting diodes 718(1995)177

Linear free energy relationships

Solute effects on reversed-phase thin-layer chromatography 749(1996)201

Linear gradient separations

Optimization of preparative ion-exchange chromatography of proteins: linear gradient separations 725(1996)295

Linear solvation energy relationships

Characterization of cyano-functionalized stationary gas chromatographic phases by linear solvation energy relationships 718(1995)357

Solvatochromic parameter values and pH in acetonitrile–water mixtures. Optimization of mobile phase for the separation of peptides by high-performance liquid chromatography 725(1996)249

Chemical selectivity in micellar electrokinetic chromatography 738(1996)265

Mixed micelles of short chain alkyl surfactants and bile salts in electrokinetic chromatography: Enhanced separation of corticosteroids 738(1996)275

Linear solvent strength theory

Comparison of methods for extracting linear solvent strength gradient parameters from gradient chromatographic data 727(1996)1

Linseed oil

Gas chromatographic properties of cyclic dienoic fatty acids formed in heated linseed oil 723(1996)349

Lipid bilayers

Properties of immobilized-liposome–chromatographic supports for interaction analysis 711(1995)33

Lipid peroxidation

Determination of aliphatic aldehydes as their thiazolidine derivatives in foods by gas chromatography with flame photometric detection 709(1995)303

Determination of 4-hydroxy-2-nonenal by precolumn derivatization and liquid chromatography with laser fluorescence detection 719(1996)450

Automated high-performance liquid chromatographic separation with spectrofluorometric detection of a malondialdehyde–thiobarbituric acid adduct in plasma 729(1996)207

Distinction between enzymic and nonenzymic lipid peroxidation 743(1996)293

Lipiodol emulsion

Simultaneous high-performance liquid chromatographic determination of carboplatin, epirubicin hydrochloride and mitomycin C in a Lipiodol emulsion 726(1996)241

Lipophilicity

see also Hydrophobicity

Factorial design approach to studying the high-performance liquid chromatographic chiral separation of N-arylthiazolin-2-(thi)one atropisomers on CHIRALCEL OJ 722(1996)177

Study of lipophilic character of serotonergic ligands 723(1996)135

Indirect determination of octanol–water partition coefficients by microemulsion electrokinetic chromatography 744(1996)141

Liposomes

Properties of immobilized-liposome–chromatographic supports for interaction analysis 711(1995)33

Immobilized liposome chromatography of drugs on capillary continuous beds for model analysis of drug–membrane interactions 749(1996)13

Liquid chromatographic reactors

Autocatalytic reactions in a liquid chromatographic reactor 728(1996)401

Liquid chromatography–gas chromatography

Development of the transfer techniques for on-line high-performance liquid chromatography–capillary gas chromatography 703(1995)265

Liquid chromatography–liquid chromatography

Coupled-column reversed-phase liquid chromatography in environmental analysis 703(1995)149

Liquid chromatography–mass spectrometry

see also Special issue index

Liquid chromatography–mass spectrometry. General principles and instrumentation 703(1995)37

Biomedical and biochemical applications of liquid chromatography–mass spectrometry 703(1995)59

Liquid chromatography–time-of-flight mass spectrometry with continuous-flow matrix-assisted laser desorption ionization 711(1995)235

Application of a new atmospheric pressure ionization source for double focusing sector instruments 712(1995)3

Application of liquid chromatography–atmospheric pressure chemical ionization mass spectrometry to a sector mass spectrometer 712(1995)17

Method of increasing the sensitivity of liquid chromatography–atmospheric pressure chemical ionization mass spectrometry using a semi-micro column 715(1995)13

Determination of liquid chromatographic peak purity by electrospray ionization mass spectrometry 721(1996)41

Adaptation of high-performance liquid chromatographic methods to multiple spectral analyses 728(1996)351

Liquid crystals

Plots of relative retention against solute boiling point indicate extra solute interactions with a liquid crystal polysiloxane stationary phase 743(1996)341

Comparison of two azobenzene liquid crystal stationary phases in open tubular column gas chromatography 746(1996)247

Liquid phase velocity

Optimum liquid and solid-phase velocity for minimum shock layer thickness in counter-current chromatography 721(1996)187

Litter

Simultaneous determination of tebufenozide and five of its intact metabolites from forestry matrices by high-performance liquid chromatography 708(1995)71

Longitudinal diffusion

Contribution of the electroosmotic flow to peak broadening in capillary zone electrophoresis with uniform zeta potential 709(1995)63

Lubricating oil additives

Separation of zinc dialkyldithiophosphates in lubricating oil additives by normal-phase high-performance liquid chromatography 749(1996)87

Luminescence detection

Simultaneous high-performance liquid chromatographic determination of ochratoxin A and citrinin in cheese by time-resolved luminescence using terbium 727(1996)185

Quantitation of perfectly co-eluting analytes on dual-channel-subtraction chromatograms 727(1996)101

Luminescence spectra

Dual-channel flame photometric detector for sensitive spectrum acquisition and variable-wavelength operation 734(1996)405

Lycopus europaeus

Analysis of the components of *Lycopus europaeus* L. in body fluids during metabolism studies. Comparison of capillary electrophoresis and high-performance liquid chromatography 717(1995)261

Lysine residues

Processing of C-terminal lysine and arginine residues of proteins isolated from mammalian cell culture 705(1995)129

M**Machine learning**

Teaching a computer ion chromatography from a database of published methods 739(1996)15

Macrocyclic ligands

Macrocyclic-based column for the separation of inorganic cations by ion chromatography 706(1995)69

Magnesia-coated silica

Preparation and evaluation of magnesia-coated silica as column packing material for high-performance liquid chromatography 704(1995)45

Magnetic microspheres

Novel magnetic microspheres on the basis of poly(vinyl alcohol) as affinity medium for quantitative detection of glycosylated haemoglobin 711(1995)53

Marine particulate matter

Determination of marine monosaccharides by high-pH anion-exchange chromatography with pulsed amperometric detection 718(1995)283

Marine sediments

Optimization of microwave-assisted solvent extraction of polycyclic aromatic hydrocarbons in marine sediments using a microwave extraction system with high-performance liquid chromatography-fluorescence detection and gas chromatography-mass spectrometry 723(1996)259

Mass spectrometry

see also Capillary electrophoresis-mass spectrometry, Gas chromatography-mass spectrometry, Liquid chromatography-mass spectrometry, Matrix-assisted laser desorption mass spectrometry, Supercritical fluid chromatography-mass spectrometry, Tandem mass spectrometry and Thermospray mass spectrometry

Liquid chromatography-mass spectrometry. General principles and instrumentation 703(1995)37

Biomedical and biochemical applications of liquid chromatography-mass spectrometry 703(1995)59

Multispectral detection for gas chromatography 703(1995)335

Recent developments in supercritical fluid chromatography-mass spectrometry coupling 703(1995)479

Planar chromatography coupled with spectroscopic techniques 703(1995)613

Capillary electrophoresis-mass spectrometry 703(1995)667

Protein mass spectrometry: applications to analytical biotechnology 705(1995)21

Separation and characterisation of bovine histone H1 subtypes by combined ion-exchange and reversed-phase chromatography and mass spectrometry 711(1995)159

Effect of ion source pressure on ion formation of carbamates in particle-beam chemical-ionisation mass spectrometry 712(1995)21

Optimization of conditions for the analysis of a peptide mixture and a tryptic digest of cytochrome *c* by capillary electrophoresis-electrospray-ionization mass spectrometry with an improved liquid-sheath probe 712(1995)245

Chromium speciation by anion-exchange high-performance liquid chromatography with both inductively coupled plasma atomic emission spectroscopic and inductively coupled plasma mass spectrometric detection 712(1995)311

Application of capillary electrophoresis, high-performance liquid chromatography, on-line electrospray mass spectrometry and matrix-assisted laser desorption ionization–time of flight mass spectrometry to the characterization of single-chain plasminogen activator 717(1995)41

Determination of styrene oxide adducts in DNA and DNA components 717(1995)117

Characterization of neutral sugars and uronic acids after methanolysis and trimethylsilylation for recognition of plant gums 720(1996)27

Recent progress in the analysis of sugar monomers from complex matrices using chromatography in conjunction with mass spectrometry or stand-alone tandem mass spectrometry 720(1996)51

Matrix-assisted laser desorption/ionisation mass spectrometry of oligosaccharides and glycoconjugates 720(1996)429

2-Phosphoglycolate and glycolate-electrophore detection, including detection of 87 zeptomoles of the latter by gas chromatography–electron-capture mass spectrometry 721(1996)289

Element- and isotope-specific detection for high-performance liquid chromatography using chemical reaction interface mass spectrometry 732(1996)189

Capillary electrophoresis with detection by inverse UV spectroscopy and electrospray mass spectrometry for the examination of quaternary ammonium herbicides 734(1996)339

Microbore high-performance liquid chromatography–electrospray ionisation mass spectrometry of steroid sulphates 738(1996)191

Characterization of powdered turmeric by liquid chromatography–mass spectrometry and gas chromatography–mass spectrometry 740(1996)51

Use of heptakis(2,6-di-*O*-methyl)- β -cyclodextrin in on-line capillary zone electrophoresis-mass spectrometry for the chiral separation of ropivacaine 742(1996)235

Reversed-phase high-performance liquid chromatography combined with tandem mass spectrometry in studies of a substance P-converting enzyme from human cerebrospinal fluid 743(1996)213

Capillary zone electrophoresis/electrospray mass spectrometry of priority phenols 743(1996)315

On-line partial filling micellar electrokinetic chromatography–electrospray ionization mass spectrometry 749(1996)219

Future potential of targeted component analysis by multidimensional liquid chromatography–mass spectrometry (Review) 750(1996)3

Comparison of the possibilities of gas chromatography–mass spectrometry and tandem mass spectrometry systems for the analysis of anabolics in biological material 750(1996)105

On-line liquid chromatography–electrospray ionization mass spectrometry for determination of the brevetoxin profile in natural ‘‘red tide’’ algae blooms 750(1996)115

Mass transfer

Nuclear magnetic resonance and the design of chromatographic separations 707(1995)45

Influence of the concentration dependence of the mass transfer properties on the chromatographic band profiles 728(1996)15

Peak tailing and mass transfer kinetics in linear chromatography 741(1996)1

Peak tailing and slow mass transfer kinetics in nonlinear chromatography 742(1996)55

Characterization of protein adsorption by composite silica–polyacrylamide gel anion exchangers 746(1996)169

Characterization of protein adsorption by composite silica–polyacrylamide gel anion exchangers 746(1996)185

Mass transfer kinetics

Steady-state concentration boundary profile for the injection of a single-component feed in counter-current chromatography 728(1996)25

Material balance diagram

Mathematical modelling and computer simulation of aqueous two-phase continuous protein extraction 741(1996)151

Mathematical modelling

Modelling and analysis of the elution stage of ‘‘perfusion chromatography’’. Effects of intraparticle convective velocity and microsphere size on system performance 724(1996)13

Dynamic modeling of electrophoretically mediated microanalysis 732(1996)119

Multi-component perfusion chromatography in fixed bed and periodic counter current column operation 734(1996)105

Mathematical modelling and computer simulation of aqueous two-phase continuous protein extraction 741(1996)151

Calculation of the composition of sample zones in capillary zone electrophoresis 741(1996)265

Matrix-assisted laser desorption mass spectrometry

Liquid chromatography–time-of-flight mass spectrometry with continuous-flow matrix-assisted laser desorption ionization 711(1995)235

Matrix-assisted laser desorption/ionisation mass spectrometry of oligosaccharides and glycoconjugates 720(1996)429

Matrix effects

Investigation of matrix effects in capillary zone electrophoresis 734(1996)319

Influence of the sample matrix composition on the accuracy of the ion chromatographic determination of anions 739(1996)35

Matrix elimination

Matrix-elimination ion chromatography with post-column reaction detection for the determination of iodide in saline waters 706(1995)271

Systematic approach to generic matrix elimination via "heart-cut" column-switching techniques 739(1996)43

Approaches to sample preparation for ion chromatography 739(1996)49

MECCSIM

MECCSIM, training software for micellar electrokinetic capillary chromatography 709(1995)21

Membrane adsorbers

Preparative membrane adsorber chromatography for the isolation of cow milk components 729(1996)87

Membrane chromatography

Separation of biomolecules using adsorptive membranes 702(1995)3

Membrane disks

Disks versus columns in the solid-phase extraction of pesticides from water 733(1996)267

Membrane extraction

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Membrane extraction microtrap

Continuous monitoring of volatile organic compounds in air emissions using an on-line membrane extraction-microtrap-gas chromatographic system 736(1996)165

Membrane permeability

Immobilized-artificial-membrane chromatography: measurements of membrane partition coefficient and predicting drug membrane permeability 728(1996)113

Membranes

Separation of biomolecules using adsorptive membranes 702(1995)3

Characterization of size-permeation limits of cell walls and porous separation materials by high-performance size-exclusion chromatography 708(1995)263

High-performance liquid chromatographic purification of extremely hydrophobic peptides: transmembrane segments 711(1995)181

Preparation of a hydrophobic porous membrane containing phenyl groups and its protein adsorption performance 718(1995)27

Membrane characterisation and performance of microdialysis probes intended for use as bioprocess sampling units 725(1996)41

Determination of herbicides in surface water by means of a supported liquid membrane technique and high-performance liquid chromatography 725(1996)121

Liquid membrane enrichment for the ion chromatographic determination of carboxylic acids in soil samples 725(1996)189

Continuous chromatomembrane headspace analysis 725(1996)351

Immobilized-artificial-membrane chromatography: measurements of membrane partition coefficient and predicting drug membrane permeability 728(1996)113

Controlled mixed-mode interaction chromatography on membrane adsorbers 728(1996)129

Application of capillary electrophoresis and related techniques to drug metabolism studies 735(1996)415

Preconcentration and microreaction technology on-line with capillary electrophoresis (Review) 744(1996)3

On-line monitoring of biotechnological processes by gas chromatographic-mass spectrometric analysis of fermentation suspensions 750(1996)141

Membranes, stacked

Nuclear magnetic resonance and the design of chromatographic separations 707(1995)45

Memory effects

Analysis of colloids. VIII. Concentration- and memory effects in size exclusion chromatography of colloidal inorganic nanometer-particles 707(1995)189

Mesogenic polymeric methyl siloxane

Plots of relative retention against solute boiling point indicate extra solute interactions with a liquid crystal polysiloxane stationary phase 743(1996)341

Metal affinity adsorbents

Separation of biotin labeled proteins from their unlabeled counterparts using immobilized platinum affinity chromatography 702(1995)173

Metal chelate affinity chromatography

Congo Red and Cu(II) carrying poly(ethylene glycol dimethacrylate-hydroxyethyl methacrylate) microbeads as specific sorbents. Albumin adsorption/desorption 731(1996)57

Metarhizium anisopliae

Studies on the dynamics of the production of destruxins by *Metarhizium anisopliae* 738(1996)181

Methane marker devices

Simple and efficient methane-marker devices for chromatographic samples 721(1996)157

Method development

MECCSIM, training software for micellar electrokinetic capillary chromatography 709(1995)21

Optimisation of selectivity in capillary electrophoresis with emphasis on micellar electrokinetic capillary chromatography 715(1995)1

Development and validation of a bioanalytical method for the quantification of diltiazem and desacetyldiltiazem in plasma by capillary zone electrophoresis 717(1995)235

Method development and validation for the determination of mineral elements in food and botanical materials by capillary electrophoresis 717(1995)415

Initial experiments in high-performance liquid chromatographic method development. I. Use of a starting gradient run 721(1996)3

Initial experiments in high-performance liquid chromatographic method development. II. Recommended approach and conditions for isocratic separation 721(1996)15

Capillary electrophoresis methods development and sensitivity enhancement strategies for the separation of industrial and environmental chemicals 744(1996)123

Methylation

Direct on-column derivatisation in gas chromatography 738(1996)43

Mevalonate metabolism

Analysis of isoprenoid phosphates and oligophosphates by capillary zone electrophoresis 737(1996)325

Micellar electrokinetic chromatography

Control of selectivity in micellar electrokinetic chromatography by modification of sodium dodecyl sulfate micelles with organic hydroxy compounds 705(1995)319

Micellar electrokinetic chromatography using high-molecular-mass surfactants: comparison between anionic and cationic surfactants and effects of modifiers 709(1995)3

MECCSIM, training software for micellar electrokinetic capillary chromatography 709(1995)21

Optimisation of selectivity in capillary electrophoresis with emphasis on micellar electrokinetic capillary chromatography 715(1995)1

Investigation and optimisation of the use of organic modifiers in micellar electrokinetic chromatography 716(1995)49

Polymer-supported pseudo-stationary phase for electrokinetic chromatography. Electrokinetic chromatography in a full range of methanol-water mixtures with alkylated starburst dendrimers 716(1995)57

Optimization of resolution in micellar electrokinetic chromatography via computer-aided simultaneous variation of concentrations of sodium dodecyl sulfate and urea as modifier 716(1995)81

Determination of critical micelle concentration by capillary electrophoresis. Theoretical approach and validation 718(1995)167

Quantitative structure-activity relationships studies with micellar electrokinetic chromatography. Influence of surfactant type and mixed micelles on estimation of hydrophobicity and bioavailability 721(1996)323

Micellar electrokinetic capillary chromatography with in-situ charged micelles 724(1996)285

Micellar electrokinetic chromatography-mass spectrometry

On-line coupling of micellar electrokinetic chromatography to electrospray mass spectrometry 712(1995)219

Micellar electrokinetic chromatography-mass spectrometry using a high-molecular-mass surfactant. On-line coupling with an electrospray ionization interface 716(1995)69

Synthesis and use of novel chiral surfactants in micellar electrokinetic capillary chromatography 712(1995)365

Micellar liquid chromatography

Retention mechanism of anions in micellar chromatography: Interpretation of retention data on the basis of an ion-exchange model 706(1995)37

Chromatographic quantification of hydrophobicity using micellar mobile phases 718(1995)273

A model describing the effect on retention of the addition of alcohols to the mobile phase in micellar liquid chromatography 719(1996)15

Chromatographic behaviour in reversed-phase high-performance liquid chromatography with micellar and submicellar mobile phases 728(1996)279

Quantitative micellar chromatographic analysis of interaction between peptides and sodium dodecyl sulfate micelles 741(1996)49

Micelles

Control of selectivity in micellar electrokinetic chromatography by modification of sodium dodecyl sulfate micelles with organic hydroxy compounds 705(1995)319

Quantitative structure–activity relationships studies with micellar electrokinetic chromatography. Influence of surfactant type and mixed micelles on estimation of hydrophobicity and bioavailability 721(1996)323

Chemical selectivity in micellar electrokinetic chromatography 738(1996)265

Determination of critical micelle concentration by capillary electrophoresis 743(1996)307

Micelles, mixed

Mixed micelles of short chain alkyl surfactants and bile salts in electrokinetic chromatography: 738(1996)275

Microcolumns

Method of increasing the sensitivity of liquid chromatography–atmospheric pressure chemical ionization mass spectrometry using a semi-micro column 715(1995)13

Microcystis aeruginosa

Mass spectral analyses of microcystins from toxic cyanobacteria using on-line chromatographic and electrophoretic separations 712(1995)253

Microdialysis

Determination of α -difluoromethylornithine in blood by microdialysis sampling and capillary electrophoresis with UV detection 716(1995)381

Membrane characterisation and performance of microdialysis probes intended for use as bioprocess sampling units 725(1996)41

On-line quantitation of enzymatic mannan hydrolysates in small-volume bioreactors by microdialysis sampling and column liquid chromatography–integrated pulsed electrochemical detection 725(1996)165

In vivo microdialysis determination of collagen-induced serotonin release in rat blood 730(1996)121

Microemulsion electrokinetic chromatography

Microemulsion electrokinetic chromatography with different organic modifiers: separation of water- and lipid-soluble vitamins 709(1995)11

Microemulsion electrokinetic chromatographic separation of antipyretic analgesic ingredients 735(1996)353

Indirect determination of octanol–water partition coefficients by microemulsion electrokinetic chromatography 744(1996)141

Micro liquid chromatography

Optimised injection techniques for micro and capillary liquid chromatography 746(1996)1

Microsphere diameter

“Perfusion chromatography”. The effects of intra-particle convective velocity and microsphere size on column performance 702(1995)45

Microtraps

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Characteristics of microtrap-based injection systems for continuous monitoring of volatile organic compounds by gas chromatography 727(1996)111

Microtube materials

Adsorption of oxysterols on different microtube materials during silanization prior to gas chromatographic determination 705(1995)396

Microwave-assisted digestion

Method development and validation for the determination of mineral elements in food and botanical materials by capillary electrophoresis 717(1995)415

Microwave-assisted solvent extraction

Optimization of microwave-assisted solvent extraction of polycyclic aromatic hydrocarbons in marine sediments using a microwave extraction system with high-performance liquid chromatography–fluorescence detection and gas chromatography–mass spectrometry 723(1996)259

Microwave electromagnetic treatment

Effects of high-frequency electromagnetic treatment on the solid-phase extraction of aqueous benzene, naphthalene and phenol 731(1996)65

Microwave hydrolysis

Determination of amino acids in biomass and protein samples by microwave hydrolysis and ion-exchange chromatography 706(1995)421

Microwave-induced plasma atomic emission spectroscopy detector

Determination of chlorophenols at the sub-ppb level in tap water using derivatization, solid-phase extraction and gas chromatography with plasma atomic emission detection 721(1996)297

Migration behaviour

Interpretation of migration behaviour of inorganic cations in capillary ion electrophoresis based on an equilibrium model 706(1995)503

Packed-column hydrodynamic chromatography using 1- μ m non-porous silica particles 740(1996)159

Migration distances, virtual

Separation parameters via virtual migration distances in high-performance liquid chromatography, capillary zone electrophoresis and electrokinetic chromatography 743(1996)231

Migration time

Voltage pre-conditioning technique for optimisation of migration-time reproducibility in capillary electrophoresis 718(1995)444

Migration time ratio

Improved reproducibility in capillary electrophoresis through the use of mobility and migration time ratios 735(1996)209

Milk

Identification of a new genetic variant of bovine β -casein using reversed-phase high-performance liquid chromatography and mass spectrometric analysis 711(1995)141

Steam distillation–solvent extraction, a selective sample enrichment technique for the gas chromatographic–electron-capture detection of organochlorine compounds in milk powder and other milk products 712(1995)355

Capillary electrophoretic methods for a clear identification of selenoamino acids in complex matrices such as human milk 716(1995)323

Differences in the glycosylation of recombinant and native human milk bile salt-stimulated lipase revealed by peptide mapping 718(1995)53

Characterization of ewe's milk by capillary zone electrophoresis 721(1996)345

Rapid high-performance liquid chromatographic method for determination of β -carotene in milk 721(1996)355

Chromatography of bovine lactoserum on the immobilized metallized dye Drimarene Rubine R/K 5BL. Modulation of selectivity by metal exchange and application to purification of milk immunoglobulins 725(1996)237

Preparative membrane adsorber chromatography for the isolation of cow milk components 729(1996)87

Milk fat

Determination of cholesterol in milk fat by supercritical fluid chromatography 715(1995)333

Mineral oils

On-line high-performance liquid chromatography–solvent evaporation–high-performance liquid chromatography–capillary gas chromatography–flame ionisation detection for the analysis of mineral oil polyaromatic hydrocarbons in fatty foods 750(1996)361

Mineral ores

Simultaneous solvent extraction and high-performance liquid chromatographic determination of uranium, iron, nickel and copper in mineral ore samples and phosphate rock residues using N,N' -ethylenedis(salicylaldimine) as complexing reagent 740(1996)296

Mixed-bed resins

Ion-exchange mechanisms of some transition metals on a mixed-bed resin with a complexing eluent 715(1995)105

Mixed-level orthogonal array design

Optimization of microwave-assisted solvent extraction of polycyclic aromatic hydrocarbons in marine sediments using a microwave extraction system with high-performance liquid chromatography–fluorescence detection and gas chromatography–mass spectrometry 723(1996)259

Mixed-mode stationary phases

Retention studies on mixed-mode columns in high-performance liquid chromatography 708(1995)31

Controlled mixed-mode interaction chromatography on membrane adsorbents 728(1996)129

Mixed partition–adsorption systems

Dynamically generated stationary liquid phase systems with silica and ternary mobile phases containing ethylene glycol and formamide 732(1996)231

Mobile laboratories

Portable liquid chromatograph for mobile laboratories. I. Aims 728(1996)387

Mobile phase composition

Separation of biotin labeled proteins from their unlabeled counterparts using immobilized platinum affinity chromatography 702(1995)173

Egg yolk riboflavin binding protein as a new chiral stationary phase in high-performance liquid chromatography 704(1995)55

Selectivity enhancement on a poly(butadiene–maleic acid)-coated cation phase induced by ethylene oxide-based complexing agents 706(1995)103

Evaluation of 1,2-diaminocyclohexanetetraacetic acid as eluent in the determination of inorganic anions and cations by ion chromatography 706(1995)115

Ion chromatographic separation of alkali metals in organic solvents 706(1995)149

Separation of anionic surfactants on anion exchangers 706(1995)327

Ion-exclusion chromatography with conductimetric detection of aliphatic carboxylic acids on an H^+ -form cation-exchange resin column by elution with polyols and sugars 706(1995)385

Hydrophobic interaction chromatography of *Chromobacterium viscosum* lipase 707(1995)137

Normal-phase high-performance liquid chromatography using enhanced-fluidity liquid mobile phases 707(1995)217

Use of β -diketonate anions as eluent in non-suppressed ion chromatography: 1,3-cyclohexanedionate as acidic eluent 707(1995)384

- Influence of organic solvent modifier and solvent strength on peak shape of some basic compounds in high-performance liquid chromatography using a reversed-phase column 708(1995)185
- Study on how mobile phase buffer composition effects the retention behavior of the system peak in non-suppressed ion chromatography 708(1995)195
- Enhanced sensitivity for peptide mapping with electrospray liquid chromatography–mass spectrometry in the presence of signal suppression due to trifluoroacetic acid-containing mobile phases 712(1995)177
- Ion-exchange mechanisms of some transition metals on a mixed-bed resin with a complexing eluent 715(1995)105
- Optimization of chiral selectivity on cellulose-based high-performance liquid chromatographic columns using aprotic mobile-phase modifiers 718(1995)9
- Elution of lipoprotein fractions containing apolipoproteins E and A-I in size exclusion on Superose 6 columns is sensitive to mobile phase pH and ionic strength 718(1995)59
- Chromatographic quantification of hydrophobicity using micellar mobile phases 718(1995)273
- A model describing the effect on retention of the addition of alcohols to the mobile phase in micellar liquid chromatography 719(1996)15
- Solvatochromic parameter values and pH in aqueous–organic mixtures used in liquid chromatography Prediction of retention of a series of quinolones 719(1996)27
- Separation of metal–oxalate complexes on an anion-exchange column 719(1996)457
- Initial experiments in high-performance liquid chromatographic method development. I. Use of a starting gradient run 721(1996)3
- Initial experiments in high-performance liquid chromatographic method development. II. Recommended approach and conditions for isocratic separation 721(1996)15
- Mobile phase effects on membrane protein elution during immobilized artificial membrane chromatography 721(1996)213
- High-performance liquid chromatographic analysis of retinal and retinol isomers 721(1996)247
- Two-stage resolution of mixtures by supercritical fluid chromatography 722(1996)317
- New approach for controlling the partitioning of analyte ions in ion chromatography with a water mobile phase 723(1996)251
- Counter-current chromatography using supercritical fluid carbon dioxide as mobile phase 724(1996)91
- Size-exclusion chromatography of solubilised low-rank coal 724(1996)97
- Solvatochromic parameter values and pH in acetonitrile–water mixtures. Optimization of mobile phase for the separation of peptides by high-performance liquid chromatography 725(1996)249
- Role of binding capacity versus binding strength in the separation of chiral compounds on protein-based high-performance liquid chromatography columns 725(1996)273
- Re-evaluation of strong cation-exchange high-performance liquid chromatography for the analysis of basic drugs 725(1996)335
- Critical retention behaviour of polymers 727(1996)13
- Partial least-squares and principal component regression of multi-analyte high-performance liquid chromatography with diode-array detection 727(1996)27
- Simultaneous analysis of intact and desulfated glucosinolates with a porous graphitized carbon column 727(1996)71
- Retention of pyridinecarboxylic acids on monomeric and polymeric alkylamide phases 728(1996)213
- Effect of mobile phase additives on peptide retention in reversed-phase chromatography with pellicular and totally porous sorbents 728(1996)225
- Novel additives for the separation of organic compounds by high-performance liquid chromatography 728(1996)235
- Influence of the kind of the alcoholic modifier on chiral separation on a Chiralpak AD column 728(1996)249
- Effect of buffers on silica-based column stability in reversed-phase high-performance liquid chromatography 728(1996)259
- High-performance liquid chromatography with non-aqueous solvents. Relative elution strength on a polystyrene–divinylbenzene column 728(1996)271
- Chromatographic behaviour in reversed-phase high-performance liquid chromatography with micellar and submicellar mobile phases 728(1996)279
- Effect of the degree of substitution of cyclodextrin derivatives on chiral separations by high-performance liquid chromatography and capillary electrophoresis 728(1996)423
- Enantiomeric resolution of axially chiral compounds and interconvertible enantiomers by high-performance liquid chromatography 728(1996)433
- Influence of different types of cyclodextrins on the racemization of scopolamine-N-butylbromide 728(1996)441

- Enantiomeric separation of zopiclone, its metabolites and products of degradation on a β -cyclodextrin bonded phase 729(1996)19
- Reversed-phase affinity chromatography of ecdysteroids with boronic acid-containing eluents 730(1996)147
- High-performance liquid chromatographic separation of some 2- and 4-hydroxy derivatives of 2'-benzoylbenzoic acid on Florisil and silica gel columns 730(1996)195
- Oligomeric separation of alkylphenol ethoxylate surfactants on silica using aqueous acetonitrile eluents 731(1996)171
- Swelling behaviour and kinetic performance of polyacrylate stationary phases for reversed-phase and normal-phase open-tubular liquid chromatography 732(1996)201
- Dynamically generated stationary liquid phase systems with silica and ternary mobile phases containing ethylene glycol and formamide 732(1996)231
- Homologue separation of linear alcohol ethoxylates by high-performance liquid chromatography 732(1996)299
- Application of different isotherm models to the description of single-component and competitive adsorption data 734(1996)83
- Mobile phase effects on single-component and competitive adsorption isotherms in reversed-phase systems 734(1996)125
- Hydrophobic interaction chromatography of *Chromobacterium viscosum* lipase on polyethylene glycol immobilized on Sepharose 734(1996)213
- Effect of the eluent pH on the thermospray molecular ion intensity of nucleosides 734(1996)271
- Chromatographic behaviour of oligoethylene glycol nonylphenyl ether anionic surfactants in normal-phase high-performance liquid chromatography 736(1996)131
- Comparative study of high-performance liquid chromatography and micellar electrokinetic capillary chromatography applied to the analysis of different mixtures of pesticides 737(1996)109
- Size-exclusion chromatography of lignin- and carbohydrate-containing samples using alkaline eluents 737(1996)193
- Effect of organic solvent modifier and nature of solute on the performance of bonded silica reversed-phase columns for the analysis of strongly basic compounds by high-performance liquid chromatography 738(1996)169
- Separation of aromatic sulphonic acid dye intermediates by high-performance liquid chromatography and capillary zone electrophoresis 738(1996)201
- Enhancing the anion separations on a polydivinylbenzene-based anion stationary phase 739(1996)99
- Ion-exclusion chromatography of ethanolamines on an anion-exchange resin by elution with polyols and sugars 739(1996)317
- Separation and determination of amino acids, creatinine, bioactive amines and nucleic acid bases by dual-mode gradient ion-pair chromatography 739(1996)333
- Ion-exclusion chromatography of aliphatic carboxylic acids on an unmodified silica gel column 739(1996)359
- Effects of organic modifiers on the chiral recognition by different types of silica-immobilized bovine serum albumin 740(1996)207
- Experimental study on the retention of silica particles in gravitational field-flow fractionation 740(1996)245
- Reversed-phase high-performance liquid chromatography of molecular species of phospholipid derivatives 741(1996)213
- High-performance liquid chromatography and detection of polyethers and their mono(carboxy)alkyl and -arylalkyl substituted derivatives (Review) 742(1996)1
- Planar chromatographic direct separation of some aromatic amino acids and aromatic amino alcohols into enantiomers using cyclodextrin mobile phase additives 742(1996)289
- Fast, reproducible size-exclusion chromatography of biological macromolecules 743(1996)43
- Method for obtaining unique selectivities in ion-exchange chromatography by addition of organic polymers to the mobile phase 743(1996)51
- Influence of column type and chromatographic conditions on the ion-exchange chromatography of immunoglobulins 743(1996)171
- Systematic approach to the treatment of enantiomeric separations in capillary electrophoresis and liquid chromatography. III. A binding constant-retention factor relationship and effects of acetonitrile on the chiral separation of tioconazole 745(1996)25
- Perfluorinated acid alternatives to trifluoroacetic acid for reversed-phase high-performance liquid chromatography 746(1996)277
- Separation of zinc dialkyldithiophosphates in lubricating oil additives by normal-phase high-performance liquid chromatography 749(1996)87
- Ion chromatographic separation of selenite and selenate using a polyanionic eluent 749(1996)115
- Mobile phase effects**
Retention mechanism in reversed-phase liquid chromatography: specific effects of propiophenyl and multifunctional (cyanopropyl-octadecyl) bonded silicas 725(1996)205

Mobility, differential

Selectivity, differential mobility and resolution as parameters to optimize capillary electrophoretic separation 744(1996)115

Mobility ratio

Improved reproducibility in capillary electrophoresis through the use of mobility and migration time ratios 735(1996)209

Moisture

Moisture content in proteins: its effects and measurement 705(1995)115

Molasses

Determination of some organic acids in sugar factory products 706(1995)375

Molecular connectivity indices

Use of topological descriptors in chromatographic chiral separations 719(1996)37

Molecular descriptors

Characterization of cyano-functionalized stationary gas chromatographic phases by linear solvation energy relationships 718(1995)357

Structure-retention relationships of steroid hormones in reversed-phase liquid chromatography and micellar electrokinetic capillary chromatography 728(1996)83

Molecular ion intensity

Effect of the eluent pH on the thermospray molecular ion intensity of nucleosides 734(1996)271

Molecular mass determination

Characterization of technical waxes 732(1996)111

Separation and molecular mass distribution of rice proteins by size-exclusion high-performance liquid chromatography in a dissociating buffer 734(1996)195

Absolute on-line molecular mass analysis of basic fibroblast growth factor and its multimers by reversed-phase liquid chromatography with multi-angle laser light scattering detection 740(1996)215

Molecular mass distributions

Characterization of technical waxes 732(1996)111

Molecular modelling

New stationary phases for the high-performance liquid chromatographic separation of nucleosides and cyclic nucleotides 728(1996)201

Investigation of the enantioselective separations of α -alkylarylcarboxylic acids on an amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase using quantitative structure-enantioselective retention relationships 737(1996)157

Molecular parameters

Solute retention in gas and supercritical fluid chromatography versus pairwise interactions within the system: a numerical treatment in perturbations of molecular parameters 738(1996)101

Molecular recognition

Current trends in molecular recognition and bioseparation (Review) 707(1995)3

Molecular recognition of phenobarbital in plasticizers. Equilibrium investigations on the solubility of the barbiturate artificial receptor and its binding to phenobarbital in plasticizers 722(1996)47

Molecular shape indices

Using topological indices in the prediction of gas chromatographic retention indices of linear alkylbenzene isomers 719(1996)462

Molecular sieves

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Molecular simulation

Three-dimensional molecular simulation of chromatographic separations 722(1996)3

Molecular topology

Use of topological descriptors in chromatographic chiral separations 719(1996)37

Prediction of chromatographic properties for a group of natural phenolic derivatives by molecular topology 719(1996)45

Monte Carlo calculations

Determination of acidity constants of monoprotic and diprotic acids by capillary electrophoresis 745(1996)117

Moving boundary

Change of pH in electrophoretic zones as a cause of peak deformation 742(1996)211

Moving-grid model

Computer aided desk-top scale-up and optimisation of chromatographic processes 702(1995)81

Mueller Hinton agar

Determination of ceftazidime concentration in Mueller Hinton agar by high-performance liquid chromatography 742(1996)121

Multicomponent adsorption

Multi-component perfusion chromatography in fixed bed and periodic counter current column operation 734(1996)105

Multicomponent interference

Multicomponent interferences in overloaded gradient elution chromatography 724(1996)27

Multicomponent systems

Non-linear waves in chromatography (Review) 734(1996)7

Multicriteria decision making

Application of Derringer's desirability function for the selection of optimum separation conditions in capillary zone electrophoresis 740(1996)109

Multidimensional mapping

Multi-dimensional mapping of pyridylamine-labeled N-linked oligosaccharides by capillary electrophoresis 720(1996)395

Multidimensional separations

see also Special issue index

Comprehensive multi-dimensional gas chromatography 703(1995)327

Applications of supercritical fluid extraction in multidimensional systems 703(1995)523

Application of capillary electrophoresis, high-performance liquid chromatography, on-line electrospray mass spectrometry and matrix-assisted laser desorption ionization-time of flight mass spectrometry to the characterization of single-chain plasminogen activator 717(1995)41

Future potential of targeted component analysis by multidimensional liquid chromatography-mass spectrometry (Review) 750(1996)3

Multifunctional bonded silica

Retention mechanism in reversed-phase liquid chromatography: specific effects of propiophenyl and multifunctional (cyanopropyl-octadecyl) bonded silicas 725(1996)205

Multi-layer coil planet centrifuge

Separation and purification of peptides by high-speed counter-current chromatography 702(1995)207

Multiple-plug binding assays

Multiple-plug binding assays using affinity capillary electrophoresis 727(1996)291

Multiresidue methods

Gel permeation chromatography-high-performance liquid chromatography combination as an automated clean-up technique for the multiresidue analysis of fats 737(1996)9

Rapid multiresidue screening method for the determination of pesticides in plant materials 737(1996)215

Multispectral detection

Multispectral detection for gas chromatography 703(1995)335

Multivariate calibration

Partial least-squares and principal component regression of multi-analyte high-performance liquid chromatography with diode-array detection 727(1996)27

Quantification of two chromatographic unresolved dichlorophenols using gas chromatography-direct deposition-Fourier transform infrared spectrometry and multivariate calibration 750(1996)341

Multivariate statistical analyses

Contribution of high-performance liquid chromatographic analysis of carbohydrates to authenticity testing of honey 706(1995)353

Multivariate techniques

Application of multivariate self-modeling curve resolution to the quantitation of trace levels of organophosphorus pesticides in natural waters from interlaboratory studies 730(1996)177

Murine tumours

Analysis of the acidic microenvironment in murine tumours by high-performance ion chromatography 706(1995)459

Mutagens

Isolation by solid-phase extraction and liquid chromatographic determination of mutagenic amines in beef extracts 719(1996)203

Determination of heterocyclic amines by pneumatically assisted electrospray liquid chromatography-mass spectrometry 730(1996)185

Mycobacterium tuberculosis

Capillary electrophoresis of DNA. Potential utility for clinical diagnoses 717(1995)127

Mycoplasma hyopneumoniae

Purification of hydrophobic integral membrane proteins from *Mycoplasma hyopneumoniae* by reversed-phase high-performance liquid chromatography 737(1996)273

N**Naphthas**

Determination of elemental sulfur by size-exclusion chromatography 740(1996)237

Naphthylethylamine

Comparison of the chiral resolution on *cis-trans* isomeric chiral stationary phases derived from (*S*)-1-(1-naphthyl)ethylamine 740(1996)183

Near infrared spectrometry

Planar chromatography coupled with spectroscopic techniques 703(1995)613

Needle device

Development of a needle device for on-line electroextraction-liquid chromatography 741(1996)13

Network model

Characterization of pore size distribution of packing materials used in perfusion chromatography using a network model 718(1995)239

Network-polymeric chiral stationary phases

Chromatographic separation of enantiomers on N,N'-diallyl-L-tartardiamide-based network-polymeric chiral stationary phases 741(1996)23

Neural networks, artificial

Artificial neural networks aided deconvolving overlapped peaks in chromatograms 749(1996)5

Neural network sensors

Determining the characteristics of water pollutants by neural sensors and pattern recognition methods 722(1996)233

Nickel plating baths

Phosphorus speciation in nickel plating baths by ion chromatography 705(1995)390

Nitrogen-phosphorus detection

Design and optimization of a novel type nitrogen-phosphorus detector for capillary gas chromatography 732(1996)51

Nitrophosphate fertilizer

Determination of thorium and uranium in nitrophosphate fertilizer solution by ion chromatography 706(1995)175

1/f Noise

Measurement precision and 1/f noise in analytical instruments 722(1996)157

Noise

Analyte noise in the flame photometric detector 724(1996)251

Non-enzymatic nucleotide growth

Efficiency of chemical oligonucleotide synthesis evaluated by ion-exchange high-performance liquid chromatography 706(1995)405

Non-gel sieving capillary electrophoresis

Pre-column derivatization of proteins to enhance detection sensitivity for sodium dodecyl sulfate non-gel sieving capillary electrophoresis 715(1995)167

Non-ideal surface solution model

Model for ion-exchange equilibria of macromolecules in preparative chromatography 702(1995)113

Non-linear chromatography

Non-linear waves in chromatography (Review) 734(1996)7

Use of the equilibrium-dispersive model of nonlinear gas chromatography for the modelling of the elution band profiles in the preparative-scale gas chromatographic separation of enantiomers 734(1996)289

Peak tailing and slow mass transfer kinetics in nonlinear chromatography 742(1996)55

Non-linear elution

Modeling non-linear elution of proteins in ion-exchange chromatography 702(1995)125

Ion-exchange displacement chromatography of proteins. Dendritic polymers as novel displacers 702(1995)143

Non-linear mapping

Determination of the retention behaviour of some non-ionic surfactants on reversed-phase high-performance liquid chromatography supports by spectral mapping in combination with cluster analysis or non-linear mapping 722(1996)281

Non-linear waves

On non-linear waves in chromatography 734(1996)3

Nuclear magnetic resonance

Nuclear magnetic resonance and the design of chromatographic separations 707(1995)45

Nuclear magnetic resonance imaging

NMR imaging of the chromatographic process. Deposition and removal of gadolinium ions on a reversed-phase liquid chromatographic column 704(1995)37

Nuclear magnetic resonance spectrometry

On-line use of NMR detection in separation chemistry 703(1995)123

Hydrogen-bonding interaction in capillary electrophoresis using polyether matrices 711(1995)305

High-performance liquid chromatography directly coupled to ¹⁹F and ¹H NMR for the analysis of mixtures of isomeric ester glucuronide conjugates of trifluoromethylbenzoic acids 728(1996)377

Isolation and identification of peptide conformers by reversed-phase high-performance liquid chromatography and NMR at low temperature 729(1996)155

Silica-bonded calixarenes in chromatography 731(1996)41

Comparative capillary electrophoretic and nuclear magnetic resonance studies of the chiral recognition of racemic metomidate with cyclodextrin hosts 732(1996)133

Capillary electrophoresis and ¹H NMR studies on chiral recognition of atropisomeric binaphthyl derivatives by cyclodextrin hosts 732(1996)143

Kinetic study on the *cis-trans* isomerization of peptidyl-proline dipeptides 744(1996)259

Application of on-line capillary high-performance liquid chromatography-nuclear magnetic resonance spectrometry coupling for the analysis of vitamin A derivatives 750(1996)303

Nuclear waste

Sample preparation techniques for determining semi-volatile organic compounds in nuclear defense materials production waste 738(1996)215

Nucleotide sequence variability

Fractals for multicyclic synthesis conditions of biopolymers 739(1996)431

Numerical methods

Optimization of temperature-programmed gas chromatographic separations. I. Prediction of retention times and peak widths from retention indices 718(1995)339

O

Octanol-water partition coefficients

Correlation between the logarithm of capacity factors for aromatic compounds in micellar electrokinetic chromatography and their octanol-water partition coefficients 742(1996)251

Indirect determination of octanol-water partition coefficients by microemulsion electrokinetic chromatography 744(1996)141

Novel computational methods for the determination of partition coefficients by planar chromatography 749(1996)211

Oil, hydrocracked

Direct determination of coronene in heavy oil fraction by high-performance liquid chromatography 724(1996)337

Oil, sesame

Determination of 4-hydroxy-2-nonenal by precolumn derivatization and liquid chromatography with laser fluorescence detection 719(1996)450

Oil, soybean

Determination of 4-hydroxy-2-nonenal by precolumn derivatization and liquid chromatography with laser fluorescence detection 719(1996)450

Oilfield water

Determination of anions in oilfield waters by ion chromatography 706(1995)301

Oils

Differentiation of the source of spilled oil and monitoring of the oil weathering process using gas chromatography-mass spectrometry 712(1995)321

Determination of diacylglycerol isomers in vegetable oils by solid-phase extraction followed by gas chromatography on a polar phase 721(1996)305

Indications of the chemical structure of oxygen-containing constituents of volatile oils by capillary gas chromatography using one or two modified β - and α -cyclodextrin phases 724(1996)403

Composition analysis of normal plant triacylglycerols and hydroperoxidized *rac*-1-stearoyl-2-oleoyl-3-linoleoyl-*sn*-glycerols by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 730(1996)1

Determination of elemental sulfur by size-exclusion chromatography 740(1996)237

Rapid, quantitative determination of polar compounds in fats and oils by solid-phase extraction and size-exclusion chromatography using monostearin as internal standard 749(1996)55

Separation of zinc dialkyldithiophosphates in lubricating oil additives by normal-phase high-performance liquid chromatography 749(1996)87

Determination of polycyclic aromatic hydrocarbons in edible oils and fats by on-line donor-acceptor complex chromatography and high-performance liquid chromatography with fluorescence detection 750(1996)263

On-line high-performance liquid chromatography-solvent evaporation-high-performance liquid chromatography-capillary gas chromatography-flame ionisation detection for the analysis of mineral oil polyaromatic hydrocarbons in fatty foods 750(1996)361

Oligonucleotide synthesis, chemical

Efficiency of chemical oligonucleotide synthesis evaluated by ion-exchange high-performance liquid chromatography 706(1995)405

Fractals for multicyclic synthesis conditions of biopolymers 739(1996)431

Oligosaccharide mapping

Multi-dimensional mapping of pyridylamine-labeled N-linked oligosaccharides by capillary electrophoresis 720(1996)395

Oligosaccharide sequencing

Oligosaccharide sequencing based on exo- and endoglycosidase digestion and liquid chromatographic analysis of the products 720(1996)263

Olive oil

Detection of olive oil adulteration by measuring its authenticity factor using reversed-phase high-performance liquid chromatography 708(1995)351

Characterization of phenolic and secoiridoid aglycons present in virgin olive oil by gas chromatography–chemical ionization mass spectrometry 736(1996)195

Automated on-line gel permeation chromatography–gas chromatography for the determination of organophosphorus pesticides in olive oil 750(1996)275

On-line coupled chromatography

On-line high-performance liquid chromatography–solvent evaporation–high-performance liquid chromatography–capillary gas chromatography–flame ionisation detection for the analysis of mineral oil polyaromatic hydrocarbons in fatty foods 750(1996)361

On-line sample enrichment

Trace level analysis of micropollutants in aqueous samples using gas chromatography with on-line sample enrichment and large volume injection 703(1995)277

Open-tubular liquid chromatography

Swelling behaviour and kinetic performance of polyacrylate stationary phases for reversed-phase and normal-phase open-tubular liquid chromatography 732(1996)201

Ophthalmic solutions

Improved high-performance liquid chromatographic determination of pilocarpine and its degradation products in ophthalmic solutions 740(1996)289

Opium preparations

Determination of morphine and related alkaloids in crude morphine, poppy straw and opium preparations by micellar electrokinetic capillary chromatography 718(1995)217

Optical fibers

Evaluation of the potential usefulness of in situ fiber optic sensors for column monitoring in chromatographic separations and purifications 736(1996)51

Optimization

Migration behaviour and optimization of selectivity of dichlorophenols in capillary zone electrophoresis 705(1995)325

Development and monitoring of purification process for nerve growth factor fusion antibody 708(1995)61

Optimisation of selectivity in capillary electrophoresis with emphasis on micellar electrokinetic capillary chromatography 715(1995)1

Determination of chiral reagent purity by capillary electrophoresis 715(1995)151

Optimization of the separation of β -agonists by capillary electrophoresis on untreated and C_{18} bonded silica capillaries 715(1995)345

Optimization of resolution in micellar electrokinetic chromatography via computer-aided simultaneous variation of concentrations of sodium dodecyl sulfate and urea as modifier 716(1995)81

Buffer effects in the desionoselective/ionoselective/duoselective separation selectivity model-assisted optimization of the capillary electrophoretic separation of enantiomers. I. Low-pH phosphate buffers 716(1995)197

Separation of transition metal cations by capillary electrophoresis. Optimization of complexing agent concentrations (lactic acid and 18-crown-6) 717(1995)393

Optimization of chiral selectivity on cellulose-based high-performance liquid chromatographic columns using aprotic mobile-phase modifiers 718(1995)9

Optimization of temperature-programmed gas chromatographic separations. I. Prediction of retention times and peak widths from retention indices 718(1995)339

Sensitive and selective method for the determination of sodium monofluoroacetate by capillary zone electrophoresis 719(1996)421

Micellar electrokinetic capillary chromatography of fungal metabolites. Resolution optimized by experimental design 721(1996)337

Optimization of supercritical fluid extraction of phenol and cresols in soil samples 723(1996)123

Optimization of preparative ion-exchange chromatography of proteins: linear gradient separations 725(1996)295

Computer-aided optimization of gradient multiple development thin-layer chromatography. III. Multi-stage development over a constant distance 726(1996)185

Method to study the separation of eight *p*-hydroxybenzoic esters by gas chromatography 727(1996)93

High-performance liquid chromatographic determination of vancomycin in rabbit serum, vitreous and aqueous humour after intravitreal injection of the drug 727(1996)231

Enantiomeric separation of zopiclone, its metabolites and products of degradation on a β -cyclodextrin bonded phase 729(1996)19

Retention behavior of arsenobetaine, arsenocholine, trimethylarsine oxide and tetramethylarsonium iodide on a styrene–divinylbenzene column with benzenesulfonates as ion-pairing reagents 730(1996)219

Optimisation of the separation of the dimethylpyridines by capillary electrophoresis 730(1996)321

Modeling of the influence of the experimental conditions on the separation of the components of a binary mixture in isocratic overloaded elution preparative chromatography 734(1996)49

Optimized micellar electrokinetic chromatographic separation of benzodiazepines 735(1996)249

Determination of the enantiomeric purity of dexfenfluramine by capillary electrophoresis: use of a Plackett–Burman design for the optimization of the separation 736(1996)281

Teaching a computer ion chromatography from a database of published methods 739(1996)15

Optimization of the separation of polycarboxylic acids by capillary zone electrophoresis 739(1996)389

Application of Derringer's desirability function for the selection of optimum separation conditions in capillary zone electrophoresis 740(1996)109

Optimizing split/splitless injection port parameters for solid-phase microextraction 740(1996)139

Optimization, efficiency

Maximization of separation efficiency in capillary electrophoretic chiral separations by means of mobility-matching background electrolytes 730(1996)273

Oranges

Matrix solid-phase dispersion extraction procedure for multiresidue pesticide analysis in oranges 719(1996)95

Organic matter, dissolved

High-performance liquid chromatographic characterization of dissolved organic matter from low-level radioactive waste leachates 739(1996)281

Organic modifiers

Influence of organic solvent modifier and solvent strength on peak shape of some basic compounds in high-performance liquid chromatography using a reversed-phase column 708(1995)185

Micellar electrokinetic chromatography using high-molecular-mass surfactants: comparison between anionic and cationic surfactants and effects of modifiers 709(1995)3

Capillary zone electrophoretic separation of alkylbenzyl quaternary ammonium compounds: effect of organic modifier 722(1996)345

Comparative study of high-performance liquid chromatography and micellar electrokinetic capillary chromatography applied to the analysis of different mixtures of pesticides 737(1996)109

Effect of organic solvent modifier and nature of solute on the performance of bonded silica reversed-phase columns for the analysis of strongly basic compounds by high-performance liquid chromatography 738(1996)169

Ion-exclusion chromatography of aliphatic carboxylic acids on an unmodified silica gel column 739(1996)359

Organic solvents

Ion chromatographic separation of alkali metals in organic solvents 706(1995)149

Capillary zone electrophoresis in organic solvents: separation of anions in methanolic buffer solutions 716(1995)303

Orthogonal array design

Combination of orthogonal array design and overlapping resolution mapping for optimizing the separation of heterocyclic amines by capillary zone electrophoresis 709(1995)351

Overlapping resolution mapping

Combination of orthogonal array design and overlapping resolution mapping for optimizing the separation of heterocyclic amines by capillary zone electrophoresis 709(1995)351

Overload columns

Change of pH in electrophoretic zones as a cause of peak deformation 742(1996)211

Overloaded elution chromatography

Model for ion-exchange equilibria of macromolecules in preparative chromatography 702(1995)113

Overloaded gradient elution

Multicomponent interferences in overloaded gradient elution chromatography 724(1996)27

Overloading

Experimental study on the separation of silica gel supports by gravitational field-flow fractionation. II. Sample preparation, stop-flow procedure and overloading effect 715(1995)259

Influence of injected mass and ionic strength on retention of water-soluble polymers and proteins in hollow-fibre flow field-flow fractionation 732(1996)307

Oxygen doping

Investigation of the use of oxygen doping of the electron-capture detection for determination of atmospheric halocarbons 707(1995)255

Oxytetracycline

Purity control of oxytetracycline by capillary electrophoresis 730(1996)305

Ozonation

Determination of polyethylene glycols in water by reversed-phase high-performance liquid chromatography 723(1996)243

Optimization of solid-phase extraction method for analysis of low-ppb amounts of aldehydes-ozonation by-products 749(1996)157

P

Packed capillary columns

Packed capillary column supercritical fluid chromatography using SE-54 polymer encapsulated silica 707(1995)303

Packed columns, HDC

Packed-column hydrodynamic chromatography using 1- μ m non-porous silica particles 740(1996)159

Packing consolidation

Consolidation of the packing material in chromatographic columns under dynamic axial compression. II. Consolidation and breakage of several packing materials 719(1996)275

Consolidation of the packing material in chromatographic columns under dynamic axial compression 741(1996)165

Consolidation of the packing material in chromatographic columns under dynamic axial compression IV. Mechanical properties of some packing materials 741(1996)175

Packing efficiency

Study of the flow development during the slurry packing of microcolumns for liquid chromatography 728(1996)33

Packing materials, mechanical properties

Consolidation of the packing material in chromatographic columns under dynamic axial compression IV. Mechanical properties of some packing materials 741(1996)175

Packing pressure

Effect of the packing pressure on the performance of C_{18} reversed-phase liquid chromatographic columns 743(1996)247

Packing solvent

Consolidation of the packing material in chromatographic columns under dynamic axial compression 741(1996)165

Paper

Applications of thin-layer chromatography to process control in the pulp and paper field 730(1996)373

Parametric pumping

Amino acid separation by preparative temperature-swing chromatography with flow reversal 732(1996)1

Partial filling micellar electrokinetic chromatography

On-line partial filling micellar electrokinetic chromatography-electrospray ionization mass spectrometry 749(1996)219

Partial least-squares regression

Partial least-squares and principal component regression of multi-analyte high-performance liquid chromatography with diode-array detection 727(1996)27

Determination of cypermethrin, fenvalerate and *cis*- and *trans*-permethrin in soil and groundwater by high-performance liquid chromatography using partial least-squares regression 727(1996)39

Particle beam interface

Liquid chromatography-mass spectrometry. General principles and instrumentation 703(1995)37

Packed column supercritical fluid chromatography-mass spectrometry with particle beam interface aided with particle forming solvent 703(1995)489

High-performance liquid chromatographic-particle beam mass spectrometric analysis of sesquiterpene lactones with different carbon skeletons 727(1996)211

Adaptation of high-performance liquid chromatographic methods to multiple spectral analyses 728(1996)351

Simultaneous identification of different classes of hydrocarbons and determination of nitro-polycyclic aromatic hydrocarbons by means of particle beam liquid chromatography-mass spectrometry 728(1996)359

Particle-forming solvent

Packed column supercritical fluid chromatography-mass spectrometry with particle beam interface aided with particle forming solvent 703(1995)489

Particle-induced X-ray emission

Bidirectional isotachophoretic separation of metal cations using EDTA as a chelating agent 709(1995)171

Particle interactions

Experimental study on the retention of silica particles in gravitational field-flow fractionation 740(1996)245

Partition coefficients

Retention behaviour of polar compounds using porous graphitic carbon with water-rich mobile phases 712(1995)287

Thermodynamic consideration of the retention mechanism in a poly(perfluoroalkyl ether) gas chromatographic stationary phase used in packed columns 715(1995)299

Chromatographic quantification of hydrophobicity using micellar mobile phases 718(1995)273

Characterization of cyano-functionalized stationary gas chromatographic phases by linear solvation energy relationships 718(1995)357

Quantitative structure–activity relationships studies with micellar electrokinetic chromatography. Influence of surfactant type and mixed micelles on estimation of hydrophobicity and bioavailability 721(1996)323

Molecular recognition of phenobarbital in plasticizers. Equilibrium investigations on the solubility of the barbiturate artificial receptor and its binding to phenobarbital in plasticizers 722(1996)47

Study of lipophilic character of serotonergic ligands 723(1996)135

Immobilized-artificial-membrane chromatography: measurements of membrane partition coefficient and predicting drug membrane permeability 728(1996)113

Application of capillary electrophoresis for characterizing interactions between drugs and bile salts. Part I 745(1996)135

Solute effects on reversed-phase thin-layer chromatography 749(1996)201

Novel computational methods for the determination of partition coefficients by planar chromatography 749(1996)211

Partitioning

Effects of salts and the surface hydrophobicity of proteins on partitioning in aqueous two-phase systems containing thermoseparating ethylene oxide–propylene oxide copolymers 718(1995)67

New approach for controlling the partitioning of analyte ions in ion chromatography with a water mobile phase 723(1996)251

Partition isotherms

Determination of the gas–liquid partition isotherms of the enantiomers of methyl 2-chloropropionate on trichloroacetyl pentyl β -cyclodextrin using the elution by characteristic points method 734(1996)155

Passive sampling

Screening method for the determination of 28 volatile organic compounds in indoor and outdoor air at environmental concentrations using dual-column capillary gas chromatography with tandem electron-capture–flame ionization detection 749(1996)181

Pattern recognition

Determining the characteristics of water pollutants by neural sensors and pattern recognition methods 722(1996)233

Peak area

Precision and linearity of inorganic analyses by ion chromatography 706(1995)21

Peak broadening

Contribution of the electroosmotic flow to peak broadening in capillary zone electrophoresis with uniform zeta potential 709(1995)63

Peak order/disorder

Sample dimensionality: a predictor of order–disorder in component peak distribution in multidimensional separation 703(1995)3

Peak overlap

Analysis of overlapped chromatographic peaks by multi-channel electrochemical detection 722(1996)151

H-Point standard additions method for resolution of overlapping chromatographic peaks with diode array detection by using area measurements 726(1996)57

Quantitation of unresolved chromatographic peak using overlapping ratio of profiles of standard chromatographic peaks 746(1996)161

Artificial neural networks aided deconvolving overlapped peaks in chromatograms 749(1996)5

Peak purity

Determination of liquid chromatographic peak purity by electrospray ionization mass spectrometry 721(1996)41

Assessment of chromatographic peak purity by means of artificial neural networks 734(1996)259

Peak shape

see also **Band broadening** and **Band profiles**

Influence of organic solvent modifier and solvent strength on peak shape of some basic compounds in high-performance liquid chromatography using a reversed-phase column 708(1995)185

Optimization of temperature-programmed gas chromatographic separations. I. Prediction of retention times and peak widths from retention indices 718(1995)339

Critical retention behaviour of polymers 727(1996)13

Delayed adsorption on slowly accessible stationary phase surfaces in porous liquid chromatographic column packings 728(1996)97

Adsorption isotherms in protein chromatography. Combined influence of protein and salt concentration on adsorption isotherm 734(1996)183

Peak tailing and slow mass transfer kinetics in nonlinear chromatography 742(1996)55

Peak splitting

Peak splitting observed during capillary electrophoresis of α - and β -naphthols in borate buffer 745(1996)225

Peak tailing

Peak tailing and mass transfer kinetics in linear chromatography 741(1996)1

Peak width

Diffusive analyte loss in capillary electrophoresis caused by delay in field application 732(1996)335

Peat bog

Ion chromatography of organic-rich natural waters from peatlands. III. Improvements for measuring anions and cations 706(1995)281

Ion chromatography of organic-rich natural waters from peatlands. V. Fe^{2+} and Fe^{3+} 706(1995)293

Peclet number

“Perfusion chromatography”. The effects of intra-particle convective velocity and microsphere size on column performance 702(1995)45

Penicillium commune

Micellar electrokinetic capillary chromatography of fungal metabolites. Resolution optimized by experimental design 721(1996)337

***Penstemon serrulatus* Menz**

Systematic analysis of glucosidoids from *Penstemon serrulatus* Menz. by high-performance liquid chromatography with pre-column solid-phase extraction 725(1996)177

Peptide mapping

Enhanced sensitivity for peptide mapping with electrospray liquid chromatography–mass spectrometry in the presence of signal suppression due to trifluoroacetic acid-containing mobile phases 712(1995)177

Differences in the glycosylation of recombinant and native human milk bile salt-stimulated lipase revealed by peptide mapping 718(1995)53

Improved peptide mapping using phytic acid as ion-pairing buffer additive in capillary electrophoresis 726(1996)223

Capillary column high-performance liquid chromatographic–electrospray ionization triple-stage quadrupole mass spectrometric analysis of proteins separated by two-dimensional polyacrylamide gel electrophoresis. Application to cerebellar protein mapping 730(1996)279

Analysis of monoclonal antibody and immunoconjugate digests by capillary electrophoresis and capillary liquid chromatography 735(1996)357

Automated proteolytic mapping of proteins 743(1996)91

High-sensitivity peptide mapping using packed-capillary liquid chromatography and electrospray ionization mass spectrometry 743(1996)99

Comparative peptide mapping of a hepatitis C viral recombinant protein by capillary electrophoresis and matrix-assisted laser desorption time-of-flight mass spectrometry 744(1996)177

Perfusion chromatography

“Perfusion chromatography”. The effects of intra-particle convective velocity and microsphere size on column performance 702(1995)45

Perfusion chromatography: performance of periodic countercurrent column operation and its comparison with fixed-bed operation 711(1995)3

Quantitation of monoclonal antibodies by perfusion chromatography–immunodetection 715(1995)241

Characterization of pore size distribution of packing materials used in perfusion chromatography using a network model 718(1995)239

Modelling and analysis of the elution stage of “perfusion chromatography”. Effects of intraparticle convective velocity and microsphere size on system performance 724(1996)13

Perfusion liquid chromatography of whey proteins 729(1996)99

Multi-component perfusion chromatography in fixed bed and periodic counter current column operation 734(1996)105

Superporous agarose, a new material for chromatography 734(1996)231

Perfusion immunoassay

Perfusion immunoassay for acetylcholinesterase: analyte detection based on intrinsic activity 711(1995)23

Perfusive particles

Effects of structural and kinetic parameters on the performance of chromatographic columns packed with perfusive and purely diffusive adsorbent particles 743(1996)3

Periodic counter-current system

Perfusion chromatography: performance of periodic countercurrent column operation and its comparison with fixed-bed operation 711(1995)3

Multi-component perfusion chromatography in fixed bed and periodic counter current column operation 734(1996)105

Permeation tube

Permeation tube approach to long-term use of automatic sampler retention index standards 704(1995)157

Petroleum

Coupled simulated distillation–mass spectrometry for the evaluation of hydroconverted petroleum residues 750(1996)97

Petroleum tracers

Determination of the petroleum tracers nitrate and thiocyanate in subterranean waters by capillary ion electrophoresis 715(1995)376

Phage display library

Selection of peptides with surface affinity for α -chymotrypsin using a phage display library 711(1995)119

Phanerochaete chrysosporium

High-performance size-exclusion chromatographic characterization of water-soluble polymeric substances produced by *Phanerochaete chrysosporium* from free and wheat cell wall bound 3,4-dichloroaniline 708(1995)273

Pharmaceutical analysis

see also Special issue Index

Enantiomeric separation of zopiclone, its metabolites and products of degradation on a β -cyclodextrin bonded phase 729(1996)19

High-performance liquid chromatographic separation of the impurities in a pharmaceutical raw material with the aid of computer simulation 729(1996)189

Simple, robust and accurate high-performance liquid chromatography method for the analysis of several anthelmintics in veterinary formulations 729(1996)267

Fluorimetric method of analysis for D-norpseudoephedrine hydrochloride, glycine and L-glutamic acid by reversed-phase high-performance liquid chromatography 729(1996)287

Application of high-performance liquid chromatography with diode-array detection and on-line post-column photochemical derivatization to the determination of analgesics 729(1996)355

Determination of gentiopicoside, mangiferin, palmatine, berberine, baicalin, wogonin and glycyrrhizin in the traditional Chinese medicinal preparation Sann-Joong-Kuey-Jian-Tang by high-performance liquid chromatography 730(1996)17

Rational experimental design for bioanalytical methods validation. Illustration using an assay method for total captopril in plasma 730(1996)381

High-performance, purity-indicating liquid chromatographic method for the oxytocin antagonist, L-368,899 731(1996)331

High-performance liquid chromatographic determination of the biologically active principle hypericin in phytotherapeutic vegetable extracts and alcoholic beverages 731(1996)336

Simultaneous determination of chlorpheniramine and maleate by high-performance liquid chromatography using tetra-*n*-butylammonium phosphate as an ion-pair reagent 731(1996)346

Application of high-performance liquid chromatography–electrospray ionization mass spectrometry and matrix-assisted laser-desorption ionization time-of-flight mass spectrometry in combination with selective enzymatic modifications in the characterization of glycosylation patterns in single-chain plasminogen activator 732(1996)27

High-performance liquid chromatographic analysis of mupirocin in polyethylene glycols 400 and 3350 using dual ultraviolet and evaporative light scattering detection 732(1996)399

Simultaneous determination of a camptothecin derivative, used as an anticancer drug, and its photodegradation products by high-performance liquid chromatography 734(1996)401

Determination of drug-related impurities by capillary electrophoresis 735(1996)43

Identification of chiral drug isomers by capillary electrophoresis (Review) 735(1996)77

Capillary electrophoresis of cardiovascular drugs 735(1996)123

Application of capillary electrophoresis and related techniques to drug metabolism studies 735(1996)415

Precolumn fluorescence derivatization of the antagonist [Arg⁶, D-Trp^{7,9}, MePhe⁸]-Substance P{6–11} with benzoin in high-performance liquid chromatography and selective detection of arginine-containing fragments in its degradation products 736(1996)91

Investigation of enantioselective separation of quinolonecarboxylic acids by capillary zone electrophoresis using vancomycin as a chiral selector 736(1996)303

Separation of tetracyclines by high-performance capillary electrophoresis and capillary electrochromatography 736(1996)313

Determination of impurities in tetracycline hydrochloride by non-aqueous capillary electrophoresis 737(1996)291

Separation of basic drugs with non-aqueous capillary electrophoresis 738(1996)141

Ion chromatography of amylamine and *tert*-butylamine in pharmaceuticals 739(1996)343

Determination of choline in pharmaceutical formulations by reversed-phase high-performance liquid chromatography and postcolumn suppression conductivity detection 739(1996)351

Improved high-performance liquid chromatographic determination of pilocarpine and its degradation products in ophthalmic solutions 740(1996)289

Determination of neomycin sulfate by liquid chromatography with pulsed electrochemical detection 741(1996)233

High-performance liquid chromatographic separation and determination of small amounts of process impurities of famotidine in bulk drugs and formulations 743(1996)328

Use of cyclodextrins in the capillary electrophoretic separation of *erythro*- and *threo*-mefloquine enantiomers 745(1996)17

Development and validation of a combined potency assay and enantiomeric purity method for a chiral pharmaceutical compound using capillary electrophoresis 745(1996)45

Separation of D/L-carnitine enantiomers by capillary electrophoresis 745(1996)53

Selectivity of capillary electrophoresis for the analysis of cardiovascular drugs 745(1996)145

Gas chromatography–mass spectrometry study of isosorbide 5-mononitrate stability 746(1996)286

Packed-column supercritical fluid chromatography of a new dihydropyridine drug based on direct injection of emulsion samples 749(1996)193

Phase separation kinetics

Mathematical modelling and computer simulation of aqueous two-phase continuous protein extraction 741(1996)151

Phase-shift-free subtraction chromatograms

Phase-shift-free subtraction chromatograms from a dual-channel detector 719(1996)468

pH changes

Electrolytic modification of a buffer during a capillary electrophoresis run 744(1996)81

pH effects

Solvatochromic parameter values and pH in acetonitrile–water mixtures. Optimization of mobile phase for the separation of peptides by high-performance liquid chromatography 725(1996)249

Optimisation of the separation of the dimethylpyridines by capillary electrophoresis 730(1996)321

Effect of the eluent pH on the thermospray molecular ion intensity of nucleosides 734(1996)271

Separation of metallothionein isoforms with capillary zone electrophoresis using an uncoated capillary column. Effects of pH, temperature, voltage, buffer concentration and buffer composition 734(1996)391

Manipulation of separation selectivity for inorganic anions in capillary zone electrophoresis using control of electrolyte pH 734(1996)416

Change of pH in electrophoretic zones as a cause of peak deformation 742(1996)211

pH gradients

Purification of antibody Fab fragments by cation-exchange chromatography and pH gradient elution 707(1995)225

Performance of pH elution in high-performance affinity chromatography of proteins using non-porous silica 721(1996)31

pH optimization

Solvatochromic parameter values and pH in aqueous–organic mixtures used in liquid chromatography Prediction of retention of a series of quinolones 719(1996)27

Retention behavior of arsenobetaine, arsenocholine, trimethylarsine oxide and tetramethylarsonium iodide on a styrene–divinylbenzene column with benzenesulfonates as ion-pairing reagents 730(1996)219

Selectivity, differential mobility and resolution as parameters to optimize capillary electrophoretic separation 744(1996)115

Phenanthroline

Direct determination of iron(II), iron(III) and total iron as UV-absorbing complexes by capillary electrophoresis 740(1996)151

Photobacterium spp

Toxicological evaluation of harmful substances by in situ enzymatic and biological detection in high-performance thin-layer chromatography 750(1996)403

Photochemical reactor

High-performance liquid chromatography with electrochemical detection of aspartame with a post-column photochemical reactor 729(1996)393

Photodegradation

Capillary electrophoretic study of atrazine photolysis 709(1995)215

Simultaneous determination of a camptothecin derivative, used as an anticancer drug, and its photodegradation products by high-performance liquid chromatography 734(1996)401

Gas chromatographic–mass spectrometric study of photodegradation of carbamate pesticides 738(1996)225

Photodiode, avalanche

Application of an avalanche photodiode in a near-Geiger operation as a fluorescence detector for capillary electrophoresis 744(1996)31

Photodiode-array detection

Determination of some structural features of procyanidins and related compounds by photodiode-array detection 723(1996)19

Photohydrolysis

Analysis of N-nitrosamines by high-performance liquid chromatography with post-column photohydrolysis and colorimetric detection 727(1996)83

Relative responses of various classes of compounds using a pulsed discharge helium photoionization detector. Experimental determination and theoretical calculations 749(1996)131

Experimental and theoretical relative response factors for a pulsed discharge krypton photoionization detector 749(1996)149

Photoionization detection

Windowless pulsed-discharge photoionization detector. Application to qualitative analysis of volatile organic compounds 724(1996)235

Relative responses of various classes of compounds using a pulsed discharge helium photoionization detector. Experimental determination and theoretical calculations 749(1996)131

Photoisomerisation

Capillary supercritical fluid chromatography combined with atmospheric pressure chemical ionisation mass spectrometry for the investigation of photoproduct formation in the sunscreen absorber 2-ethylhexyl-*p*-methoxycinnamate 732(1996)101

Photometric automated wet chemistry

Comparison of capillary zone electrophoresis with ion chromatography and standard photometric methods for the determination of inorganic anions in atmospheric aerosols 706(1995)469

Photoreactor, selectable power

Selectable-power photoreactor for flow-injection analysis systems and high-performance liquid chromatography post-column photochemical derivatization 724(1996)55

Photosynthesizing systems

Determining the characteristics of water pollutants by neural sensors and pattern recognition methods 722(1996)233

pH-Zone-refining counter-current chromatography

Separation of peptide derivatives by pH-zone-refining counter-current chromatography 702(1995)197

Resolution of gram quantities of racemates by high-speed counter-current chromatography 704(1995)75

pH-Zone refining counter-current chromatography of polar catecholamines using di-(2-ethylhexyl)phosphoric acid as a ligand 724(1996)348

Picea abies

Preparative separation of phenolic compounds from *Picea abies* by high-speed counter-current chromatography 719(1996)438

Piper betel

Headspace sampling and gas chromatographic-mass spectrometric determination of amphetamine and methamphetamine in betel 715(1995)325

 π - π Interactions

On the relevance of face-to-edge π - π interactions to chiral recognition 749(1996)19

Plackett-Burman design

Determination of the enantiomeric purity of dexfenfluramine by capillary electrophoresis: use of a Plackett-Burman design for the optimization of the separation 736(1996)281

Planar chromatography

Multidimensionality in planar chromatography 703(1995)573

Planar chromatography coupled with spectroscopic techniques 703(1995)613

Planar chromatography, coupled systems

Multidimensionality in planar chromatography 703(1995)573

Planar chromatography-mass spectrometry, direct probe

Fractionation by planar chromatography of a coal tar pitch for characterisation by size-exclusion chromatography, UV fluorescence and direct-probe mass spectrometry 708(1995)143

Plant gums

Characterization of neutral sugars and uronic acids after methanolysis and trimethylsilylation for recognition of plant gums 720(1996)27

Plant materials

Detection of iodide in geologic materials by high-performance liquid chromatography 706(1995)215

Purification of plant polyamines with anion-exchange column clean-up prior to high-performance liquid chromatographic analysis 709(1995)241

Liquid chromatography combined with thermospray and continuous-flow fast atom bombardment mass spectrometry of glycosides in crude plant extracts 712(1995)155

Analysis of the components of *Lycopus europaeus* L. in body fluids during metabolism studies. Comparison of capillary electrophoresis and high-performance liquid chromatography 717(1995)261

Rapid multiresidue screening method for the determination of pesticides in plant materials 737(1996)215

Sample pretreatment by UV photolysis for the ion chromatographic analysis of plant material 739(1996)167

Lesser alkaloids of cocaine-bearing plants 749(1996)173

Plasma atomic emission spectrometers

Element-specific chromatographic detection by atomic absorption, plasma atomic emission and plasma mass spectrometry 703(1995)393

Plasma mass spectrometry

Element-specific chromatographic detection by atomic absorption, plasma atomic emission and plasma mass spectrometry 703(1995)393

Plastic formed carbon

Application of a novel, plastic formed carbon as a precolumn packing material for the liquid chromatographic determination of acetylcholine and choline in biological samples 718(1995)267

Plate height

Estimating plate heights in stacked-membrane chromatography by flow reversal 702(1995)69

Nuclear magnetic resonance and the design of chromatographic separations 707(1995)45

Contribution of the electroosmotic flow to peak broadening in capillary zone electrophoresis with uniform zeta potential 709(1995)63

Plate number

Use of plate numbers achieved in capillary electrophoretic protein separations for characterization of capillary coatings 717(1995)15

Podophyllum plants

Analysis of aryltetrahydronaphthalene lignans and their glucoside conjugates in podophyllin resin by high-performance liquid chromatography 722(1996)267

Polarity

Retention behaviour of polar compounds using porous graphitic carbon with water-rich mobile phases 712(1995)287

Relative polarities of nine modified cyclodextrin commercial stationary phases in gas chromatographic capillaries 719(1996)375

Polarity parameters

Solubility and polarity parameters for pyridinecarboxamides and their complexes with copper(II) as determined by inverse gas chromatography 740(1996)253

Pollutant-colloid binding

Determination of adsorption characteristics of the nutrient orthophosphate to natural colloids by sedimentation field-flow fractionation 733(1996)105

Polyamide resins

Resin coating for capillaries giving a net positive charge and great potential for customised modification of surface properties 739(1996)367

Poly(butadiene-maleic acid)-coated silica

Cation analysis on a new poly(butadiene-maleic acid)-based column 706(1995)99

Poly(ethylene oxide)-coated columns

Non-bonded poly(ethylene oxide) polymer-coated column for protein separation by capillary electrophoresis 731(1996)273

Polyacrylamide aging

Change in conductivity in non-cross-linked polyacrylamide capillary electrophoresis 744(1996)333

Polyacrylamide gels

Capillary electrochromatography of small molecules in polyacrylamide gels with electroosmotic flow 716(1995)107

Polyacrylamide gels, non-cross-linked

Effect of the age of non-cross-linked polyacrylamide on the separation of DNA sequencing samples 717(1995)105

Multiple separations of DNA sequencing fragments with a non-cross-linked polyacrylamide-filled capillary: capillary electrophoresis at 300 V/cm 717(1995)113

Polyacrylate films

Swelling behaviour and kinetic performance of polyacrylate stationary phases for reversed-phase and normal-phase open-tubular liquid chromatography 732(1996)201

Polyamide membranes

Surface modification of microporous polyamide membranes with hydroxyethyl cellulose and their application as affinity membranes 715(1995)49

Polycarboxylic acids

Retention behavior of methylamines, ethylenediamine and N-methyl-substituted ethylenediamines on a cation-exchange resin having a polycarboxylic acid as the functional group 739(1996)327

Polyclonal antibodies

Detection of neu differentiation factor with a biospecific affinity sensor during chromatography 705(1995)163

Polyether matrices

Hydrogen-bonding interaction in capillary electrophoresis using polyether matrices 711(1995)305

Polyethyleneamine coated capillary

Performance of a physically adsorbed high-molecular-mass polyethyleneimine layer as coating for the separation of basic proteins and peptides by capillary electrophoresis 708(1995)356

Polymerase chain reaction

Fluorescence-based polymerase chain reaction-single-strand conformation polymorphism analysis of p53 gene by capillary electrophoresis 744(1996)311

Polymer-based separation media

Uniform-sized polymer-based separation media prepared using vinyl methacrylate as a cross-linking agent. Possible powerful adsorbent for solid-phase extraction of halogenated organic solvents in an aqueous environment 711(1995)247

Polymer displacement

Polymer displacement in dye-affinity chromatography 710(1995)259

Polymer-gel interactions

Solution properties of polyelectrolytes. XII. Semi-quantitative approach to mixed electrostatic and hydrophobic polymer-gel interactions 721(1996)203

Polymeric supports

Separation of priority pollutant phenols on chemically modified poly(styrene-divinylbenzene) resins by high-performance liquid chromatography 715(1995)213

Polymerization processes

Efficiency of chemical oligonucleotide synthesis evaluated by ion-exchange high-performance liquid chromatography 706(1995)405

Fractals for multicyclic synthesis conditions of biopolymers 739(1996)431

Polymer networks

CAG triplet analysis in families with androgen insensitivity syndrome by capillary electrophoresis in polymer networks 706(1995)463

Polymer packings

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. III. Diffusion in the polymer matrix as the cause of slow sorption 726(1996)37

Polymer packings, porous

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. I. Methodology and validation of the model 726(1996)1

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. II. Slow sorption rate on a microparticle packing 726(1996)25

Polymer sorbents, porous

Use of porous polymers in off-line preconcentration of nitrobenzenes and their reduction products from water 733(1996)491

Polymer support systems

Efficiency of chemical oligonucleotide synthesis evaluated by ion-exchange high-performance liquid chromatography 706(1995)405

Polysiloxane-based stationary phase

Broadly applicable polysiloxane-based chiral stationary phase for high-performance liquid chromatography and supercritical fluid chromatography 705(1995)185

Polysiloxanes

Cyclodextrin derivatives in the gas chromatographic separation of racemic mixtures of volatile compounds 742(1996)161

Polystyrene

Comparison of the chelating ion exchange properties of dye coated cellulose and polystyrene substrates for the separation and determination of trace metals from aqueous media 739(1996)81

Polystyrene-divinylbenzene resins

Characterization of a novel stationary phase derived from a hydrophilic polystyrene-based resin for protein cation-exchange high-performance liquid chromatography 723(1996)1

Evaluation of two new examples of graphitized carbon blacks for use in solid-phase extraction cartridges 733(1996)41

Polystyrene latex microbeads

High-speed particle separation and steric inversion in thin flow field-flow fractionation channels 746(1996)137

Polyurethane foam plugs

Field comparison of polyurethane foam plugs and mini-tubes containing Tenax-TA resin as trapping media for the aerodynamic gradient measurement of trifluralin vapour fluxes 710(1995)251

Poly(vinyl chloride)

High-speed particle separation and steric inversion in thin flow field-flow fractionation channels 746(1996)137

Polyvinylpyrrolidone matrix

Analysis of modified oligonucleotides by capillary electrophoresis in a polyvinylpyrrolidone matrix coupled with electrospray mass spectrometry 732(1996)159

Poplar trees

Chromatographic and chemometric investigation of the chemical defence mechanism of poplar tree genotypes against a bark fungine parasite 715(1995)95

Poppy straw

Determination of morphine and related alkaloids in crude morphine, poppy straw and opium preparations by micellar electrokinetic capillary chromatography 718(1995)217

Pore size

Effect of stationary phase on preparative protein separation in reversed-phase chromatography 702(1995)157

Pore-size distribution

Characterization of pore size distribution of packing materials used in perfusion chromatography using a network model 718(1995)239

Study of physico-chemical properties of some packing materials. 731(1996)27

Apparent pore size distributions of chromatography media 743(1996)33

Porosity

Study of physico-chemical properties of some packing materials. 731(1996)27

Effect of the packing pressure on the performance of C_{18} reversed-phase liquid chromatographic columns 743(1996)247

Porous graphitized carbon

Retention behaviour of polar compounds using porous graphitic carbon with water-rich mobile phases 712(1995)287

Comparison of separation modes of high-performance liquid chromatography for the analysis of glycoprotein- and proteoglycan-derived oligosaccharides 720(1996)227

Prediction from liquid chromatographic data of obligatory backflush desorption from solid-phase extraction cartridges packed with porous graphitic carbon 725(1996)57

Simultaneous analysis of intact and desulfated glucosinolates with a porous graphitized carbon column 727(1996)71

Porous media

see Special issue index

Positional isomers

Separation of positional and structural isomers by cyclodextrin-mediated capillary zone electrophoresis 745(1996)9

Post-column reaction detection

Matrix-elimination ion chromatography with post-column reaction detection for the determination of iodide in saline waters 706(1995)271

Post-column reaction system for fluorescence detection in capillary electrophoresis 716(1995)123

Selectable-power photoreactor for flow-injection analysis systems and high-performance liquid chromatography post-column photochemical derivatization 724(1996)55

Postcolumn co-immobilized leucine dehydrogenase–NADH oxidase reactor for the determination of branched-chain amino acids by high-performance liquid chromatography with chemiluminescence detection 724(1996)354

High-performance liquid chromatography with electrochemical detection of aspartame with a post-column photochemical reactor 729(1996)393

Postcolumn reactor in capillary electrophoresis for laser-induced fluorescence detection 734(1996)331

Liquid chromatographic determination of gallium and indium with fluorimetric detection 746(1996)239

Post-translational modification

Isoelectric focusing as a tool for the investigation of post-translational processing and chemical modifications of proteins 705(1995)67

Post-translational processing

Processing of C-terminal lysine and arginine residues of proteins isolated from mammalian cell culture 705(1995)129

Potential-barrier field-flow fractionation

Experimental study on the retention of silica particles in gravitational field-flow fractionation 740(1996)245

Potato crisps

Extraction of maleic hydrazide residues from potato crisps and their determination using high-performance liquid chromatography with UV and atmospheric pressure chemical ionisation mass spectrometric detection 750(1996)391

Potency assays

Development and validation of a combined potency assay and enantiomeric purity method for a chiral pharmaceutical compound using capillary electrophoresis 745(1996)45

Precision

Precision in capillary electrophoresis with respect to quantitative analysis of suramin 717(1995)191

Measurement precision and 1/f noise in analytical instruments 722(1996)157

Pre-coated layers

Multidimensionality in planar chromatography 703(1995)573

Pre-columns

Improved baselines in gradient elution 718(1995)429

On-line solid-phase extraction in liquid chromatography using restricted access pre-columns for the analysis of *s*-triazines in humic-containing waters 737(1996)35

Preconcentration

see also Clean-up methods, Extraction methods and Sample handling

Studies on the retention behaviour of metal–EDTA complexes in cation chromatography 706(1995)141

Carbon sorbents and their utilization for the preconcentration of organic pollutants in environmental samples 707(1995)145

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Intrinsic isotachophoretic preconcentration in capillary gel electrophoresis of DNA restriction fragments 717(1995)139

Preconcentration and microreaction technology on-line with capillary electrophoresis (Review) 744(1996)3

Determination of trace levels of thorium(IV) and uranyl by reversed-phase chromatography with on-line preconcentration and ligand exchange 749(1996)103

Preparative chromatography

see also Special issue index

Study of the packing behavior of axial compression columns for preparative chromatography 702(1995)27

Modified poly(glycidyl methacrylate–co-ethylene dimethacrylate) continuous rod columns for preparative-scale ion-exchange chromatography of proteins 702(1995)89

Complete design of a simulated moving bed 702(1995)97

Model for ion-exchange equilibria of macromolecules in preparative chromatography 702(1995)113

- Modeling non-linear elution of proteins in ion-exchange chromatography 702(1995)125
- Effect of stationary phase on preparative protein separation in reversed-phase chromatography 702(1995)157
- Ligand efficiency in axial and radial flow immunoaffinity chromatography of factor IX 702(1995)191
- Separation and purification of peptides by high-speed counter-current chromatography 702(1995)207
- Preparative-scale liquid chromatographic separation of ω -3 fatty acids from fish oil sources 702(1995)215
- Separation of enantiomers of 1 α ,2,7,7 α -tetrahydro-3-methoxynaphtha-(2,3 b)-oxirane by liquid chromatography: laboratory-scale elution chromatography and modelling of simulated moving bed 702(1995)223
- Preparative separation of taxol in normal- and reversed-phase operations 702(1995)233
- All-metal collection system for preparative-scale gas chromatography. Purification of low-boiling-point compounds 702(1995)243
- Preparative gas chromatographic separation of the enantiomers of methyl 2-chloropropionate using a cyclodextrin-based stationary phase 702(1995)251
- Preparative chromatographic separations in pharmaceutical, diagnostic, and biotechnology industries: current and future trends (Review) 707(1995)23
- Combined continuous and preparative chromatographic separation 707(1995)105
- Scale-up of liquid chromatography for industrial production of parenteral antibiotic E1077 707(1995)117
- Production of rare-earth oxides of high purity 707(1995)131
- Shock layer analysis for a single-component in preparative elution chromatography 708(1995)1
- Study of radial compression high-performance liquid chromatographic columns for preparative chromatography 708(1995)41
- Study of the operating conditions of axial compression columns for preparative chromatography 709(1995)227
- High-performance liquid chromatographic purification of extremely hydrophobic peptides: transmembrane segments 711(1995)181
- Preparative separation of phenolic compounds from *Picea abies* by high-speed counter-current chromatography 719(1996)438
- Preparative purification of tyrosinamide N-linked oligosaccharides 720(1996)235
- Effect of silver-modified silica on retention and selectivity in normal-phase liquid chromatography 722(1996)81
- Multicomponent interferences in overloaded gradient elution chromatography 724(1996)27
- Preparative separation of the diastereomers of methyl branched-chain phosphatidylcholines 724(1996)367
- Optimization of preparative ion-exchange chromatography of proteins: linear gradient separations 725(1996)295
- Chromatographic purification and characterization of synthetic tryptophan-substituted gramicidin A analogues 725(1996)315
- Study of the operating conditions of radial compression columns in preparative chromatography 728(1996)3
- Flash chiral chromatography with cellulose tris(3,5-dimethylphenylcarbamate)-coated phases 728(1996)195
- Preparative isolation of the eutomer of cyclothiazide by high-performance liquid chromatography on a cellulose-derived chiral stationary phase with toluene-acetone as the mobile phase 729(1996)29
- Retention behaviour of proteins under conditions of column overload in hydrophobic interaction chromatography 729(1996)43
- Preparative membrane adsorber chromatography for the isolation of cow milk components 729(1996)87
- Isolation and identification of peptide conformers by reversed-phase high-performance liquid chromatography and NMR at low temperature 729(1996)155
- Quantitative trace analysis of surfactant mixtures by reversed-phase high-performance liquid chromatography with refractometric detection 730(1996)209
- Preparative regime for the purification of bitter acids derived from hops (*Humulus lupulus* L.) 731(1996)327
- Amino acid separation by preparative temperature-swing chromatography with flow reversal 732(1996)1
- Preparative separation of pyrrolizidine alkaloids by high-speed counter-current chromatography 732(1996)43
- Preparative resolution of saclofen and hydroxysaclofen with analytical-scale high-performance liquid chromatography 732(1996)239
- Isolation of 4'-bromo-4,5,6,7-tetrachlorofluorescein from a synthetic mixture by pH-zone-refining counter-current chromatography with continuous pH monitoring 732(1996)283

- On non-linear waves in chromatography 734(1996)3
- Non-linear waves in chromatography (Review) 734(1996)7
- Modeling of the influence of the experimental conditions on the separation of the components of a binary mixture in isocratic overloaded elution preparative chromatography 734(1996)49
- Profiles of large-size system peaks and vacancy bands in liquid chromatography 734(1996)63
- Profiles of large-size system peaks and vacancy bands in liquid chromatography. II. Comparison of experimental and calculated profiles 734(1996)75
- Application of different isotherm models to the description of single-component and competitive adsorption data 734(1996)83
- Influence of flow-rate on the chromatographic performance of agarose- and cellulose-based anion-exchange media 734(1996)137
- Simulation of the combined continuous and preparative gas-liquid chromatographic separation of three close-boiling components 734(1996)145
- Determination of the gas-liquid partition isotherms of the enantiomers of methyl 2-chloropropionate on trichloroacetyl pentyl β -cyclodextrin using the elution by characteristic points method 734(1996)155
- Laboratory-scale purification of microcystins using flash chromatography and reversed-phase high-performance liquid chromatography 734(1996)163
- Automated purification of microcystins 734(1996)175
- Use of the equilibrium-dispersive model of nonlinear gas chromatography for the modelling of the elution band profiles in the preparative-scale gas chromatographic separation of enantiomers 734(1996)289
- Study of the physico-chemical properties of some packing materials 736(1996)21
- Ion-pair adsorption chromatography for process purposes 741(1996)185
- Effect of the packing pressure on the performance of C_{18} reversed-phase liquid chromatographic columns 743(1996)247
- Characterization of protein adsorption by composite silica-polyacrylamide gel anion exchangers 746(1996)169
- Characterization of protein adsorption by composite silica-polyacrylamide gel anion exchangers 746(1996)185
- Preparative electrophoresis**
Optimum conditions for preparative operation of capillary zone electrophoresis 716(1995)141
- Preparative capillary electrophoresis with wide-bore capillaries 744(1996)45
- Principal component analysis**
Partial least-squares and principal component regression of multi-analyte high-performance liquid chromatography with diode-array detection 727(1996)27
- Use of principal component analysis for the study of the retention behaviour of anticancer drugs on a β -cyclodextrin polymer-coated silica column 728(1996)67
- Relationship between the retention characteristics and physico-chemical parameters of some steroid drugs in reversed-phase high-performance liquid chromatography 728(1996)75
- New stationary phases for the high-performance liquid chromatographic separation of nucleosides and cyclic nucleotides 728(1996)201
- Printers**
DNA sequence analysis of Printer-modified restriction fragments after collection from capillary electrophoresis with replaceable matrices 744(1996)303
- Process analysis**
On-line monitoring of the catalytic conversion of methyl formate to methanol and carbon monoxide by gas chromatography 740(1996)65
- Coupled simulated distillation-mass spectrometry for the evaluation of hydroconverted petroleum residues 750(1996)97
- Process chromatography**
Ligand efficiency in axial and radial flow immunoaffinity chromatography of factor IX 702(1995)191
- Process monitoring**
Capillary electrophoretic determination of degradation products of nitrilotriacetic acid used as a complexing agent in a desulphuration process 717(1995)351
- Biosensors in bioprocess monitoring (Review) 725(1996)3
- Sampling and analytical strategies in on-line bioprocess monitoring and control (Review) 725(1996)13
- Improved statistical analysis of ion chromatography data from acids for aluminum anodizing solutions 739(1996)163
- Determination of organic acids in industrial streams by ion chromatography after solid-phase extraction 739(1996)273
- On-line monitoring of biotechnological processes by gas chromatographic-mass spectrometric analysis of fermentation suspensions 750(1996)141
- Process-scale chromatography**
Validation studies in the regeneration of ion-exchange celluloses 702(1995)59

Production rate

Optimum conditions for preparative operation of capillary zone electrophoresis 716(1995)141

Programmed-temperature gas chromatography

Extrapolating programmed gas chromatographic data from one set of conditions to another 746(1996)282

Programmed-temperature vaporizer

Large-volume injection in capillary gas chromatography using a programmed-temperature vaporizing injector in the on-column or solvent-vent injection mode 724(1996)384

Large-volume injection in residue analysis with capillary gas chromatography using a conventional autosampler and injection by programmed-temperature vaporization with solvent venting 727(1996)275

Vaporising systems for large volume injection or on-line transfer into gas chromatography: classification, critical remarks and suggestions (Review) 750(1996)11

Investigation of parameters affecting the on-line combination of supercritical fluid extraction with capillary gas chromatography 750(1996)215

Propiophenyl bonded silica

Retention mechanism in reversed-phase liquid chromatography: specific effects of propiophenyl and multifunctional (cyanopropyl–octadecyl) bonded silicas 725(1996)205

Protein binding

Quantitative structure–activity relationships studies with micellar electrokinetic chromatography. Influence of surfactant type and mixed micelles on estimation of hydrophobicity and bioavailability 721(1996)323

Protein heterogeneity

Non-native capillary isoelectric focusing for the analysis of the microheterogeneity of glycoproteins 737(1996)281

Protein–ligand interactions

Multiple-plug binding assays using affinity capillary electrophoresis 727(1996)291

Protein–metal interactions

Multipoint binding in metal-affinity chromatography 725(1996)225

Protein moisture content

Moisture content in proteins: its effects and measurement 705(1995)115

Proton-induced X-ray emission

Element-sensitive X-ray detection for capillary electrophoresis 727(1996)301

Pseudo-electrochromatography–mass spectrometry

Development of an instrumental configuration for pseudo-electrochromatography–electrospray mass spectrometry 712(1995)201

Pseudophase model

Retention mechanism of anions in micellar chromatography: Interpretation of retention data on the basis of an ion-exchange model 706(1995)37

Pseudo-stationary phases

Micellar electrokinetic chromatography using high-molecular-mass surfactants: comparison between anionic and cationic surfactants and effects of modifiers 709(1995)3

Micellar electrokinetic chromatography. Perspectives in drug analysis 735(1996)3

Effect of alkyl chain length of sodium N-acyl sarcosinates on migration behavior in micellar electrokinetic chromatography 744(1996)135

Pulp

Applications of thin-layer chromatography to process control in the pulp and paper field 730(1996)373

Pulp mill effluent

Determination of nitrilotriacetic, ethylenediaminetetraacetic and diethylenetriaminepentaacetic acids in sewage treatment plant and paper mill effluents 738(1996)91

Enrichment of chlorinated fatty acids in fish lipids prior to analysis by capillary gas chromatography with electrolytic conductivity detection and mass spectrometry 731(1996)225

Pulse testing

Liquid chromatographic process identification using pulse testing techniques. Applications to column standardization and scale-up 718(1995)1

Pulsed amperometric detection

Contribution of high-performance liquid chromatographic analysis of carbohydrates to authenticity testing of honey 706(1995)353

Determination of marine monosaccharides by high-pH anion-exchange chromatography with pulsed amperometric detection 718(1995)283

Pulsed discharge helium photoionization detection

Relative responses of various classes of compounds using a pulsed discharge helium photoionization detector. Experimental determination and theoretical calculations 749(1996)131

Purge-and-trap methods

Determination of trihalomethanes in aqueous samples by means of a purge-and-trap system with on-sorbent focusing coupled to gas chromatography with electron-capture detection 725(1996)157

Complementarity of purge-and-trap and head-space capillary gas chromatographic methods for determination of methyl-*tert*.-butyl ether in water 726(1996)153

Development of a whole headspace injection method for the determination of volatile organic compounds in water 746(1996)83

Pyrenyl silica

Separation of planar organic contaminants by pyrenyl-silica high-performance liquid chromatography 718(1995)107

Pyrolysis-liquid chromatography-mass spectrometry

On-line Curie-point pyrolysis-high-performance liquid chromatographic-mass spectrometric analysis of lignin polymers 736(1996)61

Q

Quality control

Control of errors in anion chromatography applied to environmental research 706(1995)229

Quality control of histamine and methacholine in diagnostic solutions with capillary electrophoresis 735(1996)387

Quantitative structure-activity relationships

Quantitative structure-activity relationships studies with micellar electrokinetic chromatography. Influence of surfactant type and mixed micelles on estimation of hydrophobicity and bioavailability 721(1996)323

Study of lipophilic character of serotonergic ligands 723(1996)135

Quantitative structure-retention relationships

Retention behavior of quinolones in reversed-phase liquid chromatography 722(1996)69

Structure-retention relationships of steroid hormones in reversed-phase liquid chromatography and micellar electrokinetic capillary chromatography 728(1996)83

Investigation of the enantioselective separations of α -alkylarylcarboxylic acids on an amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase using quantitative structure-enantioselective retention relationships 737(1996)157

Mechanistic investigation into the enantioselective separation of mexiletine and related compounds, chromatographed on an amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase 741(1996)205

Quartz-fiber wool

Monitoring of pesticides in air by gas chromatography-mass spectrometry and the use of quartz-fibre wool and activated carbon for sampling 710(1995)243

R

Racemization

Study of the racemization of L-serine by cyclodextrin-modified micellar electrokinetic chromatography and laser-induced fluorescence detection 716(1995)331

Influence of different types of cyclodextrins on the racemization of scopolamine-N-butylbromide 728(1996)441

Determination of enantiomerization barriers by computer simulation of experimental elution profiles obtained by high-performance liquid chromatography on a chiral stationary phase 731(1996)315

Radial compression columns

Study of the operating conditions of radial compression columns in preparative chromatography 728(1996)3

Radial flow columns

Ligand efficiency in axial and radial flow immunoaffinity chromatography of factor IX 702(1995)191

Radioactive waste

High-performance liquid chromatographic characterization of dissolved organic matter from low-level radioactive waste leachates 739(1996)281

Radiochromatography

Development and application of radio-size-exclusion chromatography 727(1996)61

Application of radio-chromatographic techniques to diesel emissions research 737(1996)181

Raman spectrometry

Planar chromatography coupled with spectroscopic techniques 703(1995)613

Coupling of high-performance liquid chromatography with Raman spectrometry 743(1996)323

Rate coefficients

Denuder tubes used with gas chromatographic instrumentation to measure rate coefficients and equilibrium constants 710(1995)191

Reaction kinetics

Dynamic modeling of electrophoretically mediated microanalysis 732(1996)119

Rectangular capillaries

Rectangular capillary electrophoresis: study of some dispersive effects 737(1996)243

Red slaked lime

Headspace sampling and gas chromatographic-mass spectrometric determination of amphetamine and methamphetamine in betel 715(1995)325

Reductive amination

Precolumn derivatization for chromatographic and electrophoretic analyses of carbohydrates 720(1996)173

Reference method

Ion chromatography as potential reference methodology for the determination of total sodium and potassium in human serum 706(1995)443

Reformats

Determination of elemental sulfur by size-exclusion chromatography 740(1996)237

Refractive index detector

Determination of alendronate sodium by ion chromatography with refractive index detection 719(1996)345

Refrigerants, alternative

Permeation tube approach to long-term use of automatic sampler retention index standards 704(1995)157

Retention of halocarbons on a hexafluoropropylene epoxide modified graphitized carbon black 736(1996)175

Regression analysis

Structure-retention relationships of steroid hormones in reversed-phase liquid chromatography and micellar electrokinetic capillary chromatography 728(1996)83

Relative retention

Retention of halocarbons on a hexafluoropropylene epoxide-modified graphitized carbon black. IV. Propane-based compounds 708(1995)293

Retention of halocarbons on a hexafluoropropylene-epoxide modified graphitized carbon black. Part 5: heavier ethane- and ethene-based compounds 723(1996)325

Retention of halocarbons on a hexafluoropropylene epoxide modified graphitized carbon black 736(1996)175

Plots of relative retention against solute boiling point indicate extra solute interactions with a liquid crystal polysiloxane stationary phase 743(1996)341

Relative retention times

Gas chromatographic determination of liquid vapour pressure and heat of vaporization of tetrachlorobenzyltoluenes 727(1996)265

Plots of relative retention against solute boiling points may indicate host-guest interactions with modified cyclodextrin gas chromatographic phases 732(1996)408

Reproducibility

Improved reproducibility in capillary electrophoresis through the use of mobility and migration time ratios 735(1996)209

Resolution

Buffer effects in the desionoselective/ionoselective/duoselective separation selectivity model-assisted optimization of the capillary electrophoretic separation of enantiomers. 1. Low-pH phosphate buffers 716(1995)197

Selectivity, differential mobility and resolution as parameters to optimize capillary electrophoretic separation 744(1996)115

Response surface modelling

Derivatization of dipeptides with 4-fluoro-7-nitro-2,1,3-benzoxadiazole for laser-induced fluorescence and separation by micellar electrokinetic chromatography 716(1995)389

Restricted access packings

On-line solid-phase extraction in liquid chromatography using restricted access pre-columns for the analysis of *s*-triazines in humic-containing waters 737(1996)35

Retention

Effect of silver-modified silica on retention and selectivity in normal-phase liquid chromatography 722(1996)81

Retention behaviour

Determination of the retention behaviour of some non-ionic surfactants on reversed-phase high-performance liquid chromatography supports by spectral mapping in combination with cluster analysis or non-linear mapping 722(1996)281

Use of principal component analysis for the study of the retention behaviour of anticancer drugs on a β -cyclodextrin polymer-coated silica column 728(1996)67

Relationship between the retention characteristics and physico-chemical parameters of some steroid drugs in reversed-phase high-performance liquid chromatography 728(1996)75

High-performance liquid chromatography with non-aqueous solvents. Relative elution strength on a polystyrene-divinylbenzene column 728(1996)271

Chromatographic behaviour in reversed-phase high-performance liquid chromatography with micellar and submicellar mobile phases 728(1996)279

Retention behaviour of proteins under conditions of column overload in hydrophobic interaction chromatography 729(1996)43

Retention behavior of arsenobetaine, arsenocholine, trimethylarsine oxide and tetramethylarsonium iodide on a styrene-divinylbenzene column with benzenesulfonates as ion-pairing reagents 730(1996)219

Influence of injected mass and ionic strength on retention of water-soluble polymers and proteins in hollow-fibre flow field-flow fractionation 732(1996)307

Retention behaviour of thorium(IV) and uranyl on a reversed-phase column with glycolate and mandelate as eluents 739(1996)151

Retention behaviour, critical conditions

Critical retention behaviour of polymers 727(1996)13

Retention factor

Retention behaviour of polar compounds using porous graphitic carbon with water-rich mobile phases 712(1995)287

Correlation between the logarithm of capacity factors for aromatic compounds in micellar electrokinetic chromatography and their octanol-water partition coefficients 742(1996)251

Separation parameters via virtual migration distances in high-performance liquid chromatography, capillary zone electrophoresis and electrokinetic chromatography 743(1996)231

Systematic approach to the treatment of enantiomeric separations in capillary electrophoresis and liquid chromatography. III. A binding constant-retention factor relationship and effects of acetonitrile on the chiral separation of tioconazole 745(1996)25

Retention index standards

Permeation tube approach to long-term use of automatic sampler retention index standards 704(1995)157

Retention index system

Retention index system for identification of polychlorinated biphenyl congeners in gas chromatographic analysis 724(1996)392

Retention indices

Derivation of solubility parameters of chlorinated dibenzofurans and dibenzo[*p*]dioxins from gas chromatographic retention parameters via SOFA 715(1995)267

Optimization of temperature-programmed gas chromatographic separations. I. Prediction of retention times and peak widths from retention indices 718(1995)339

Using topological indices in the prediction of gas chromatographic retention indices of linear alkylbenzene isomers 719(1996)462

Retention index calculation using Kováts constant model for linear temperature-programmed gas chromatography 721(1996)279

Alkylbenzenes as a retention-index scale in reversed-phase high-performance liquid chromatography 722(1996)59

Simple calibrated merging of gas chromatography capillary column temperature-programmed retention-index compilations 724(1996)229

Improved method for computing temperature programmed retention indices from isothermal data 725(1996)343

Capillary gas chromatography of higher alkylpolyoxyethylene glycols with an even number of carbon atoms in the alkyl group. Influence of type of derivatizing agent, alcohol chain length and oxyethylene chain length on the retention indices with a linear temperature increase 727(1996)131

Gas chromatographic determination of liquid vapour pressure and heat of vaporization of tetrachlorobenzyltoluenes 727(1996)265

Unified equation between Kováts indices on different stationary phases for select types of compounds 731(1996)187

Comparison of four homologous retention index standard series for qualitative gas chromatography of nitrogenous acidic and neutral drugs 738(1996)233

Determination of retention indices of polychlorobiphenyls by using other compounds detectable by electron-capture detection or selected polychlorobiphenyls as the reference series 741(1996)241

Calibrated salvage of gas chromatography capillary column retention indices 742(1996)131

Extrapolating programmed gas chromatographic data from one set of conditions to another 746(1996)282

Retention mechanism

Retention mechanism of anions in micellar chromatography: Interpretation of retention data on the basis of an ion-exchange model 706(1995)37

Electrochromatographic separation of proteins 707(1995)69

Simultaneous determination of enalapril, felodipine and their degradation products in the dosage formulation by reversed-phase high-performance liquid chromatography using a Spherisorb C₈ column 707(1995)245

Retention studies on mixed-mode columns in high-performance liquid chromatography 708(1995)31

Retention behaviour of polar compounds using porous graphitic carbon with water-rich mobile phases 712(1995)287

High-performance liquid chromatography of C₆₀, C₇₀, and higher fullerenes on tetraphenylporphyrin-silica stationary phases using strong mobile phase solvents 715(1995)19

Retention mechanisms of polycyclic aromatic nitrogen heterocyclics on bonded amino phases in normal-phase liquid chromatography 715(1995)31

Thermodynamic consideration of the retention mechanism in a poly(perfluoroalkyl ether) gas chromatographic stationary phase used in packed columns 715(1995)299

Revisionist look at solvophobic driving forces in reversed-phase liquid chromatography. III. Comparison of the behavior of nonpolar and polar solutes 724(1996)1

Retention mechanism in reversed-phase liquid chromatography: specific effects of propiophenyl and multifunctional (cyanopropyl–octadecyl) bonded silicas 725(1996)205

Multipoint binding in metal-affinity chromatography 725(1996)225

Solvation in weak complexing *n*-octyl phthalate and *n*-octyl tetrachlorophthalate solvents by gas chromatography 726(1996)141

Immobilized-artificial-membrane chromatography: measurements of membrane partition coefficient and predicting drug membrane permeability 728(1996)113

Mechanistic investigation into the enantioselective separation of mexiletine and related compounds, chromatographed on an amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase 741(1996)205

Retention models

Studies on the retention behaviour of metal–EDTA complexes in cation chromatography 706(1995)141

Derivation of solubility parameters of chlorinated dibenzofurans and dibenzo[*p*]dioxins from gas chromatographic retention parameters via SOFA 715(1995)267

Separation of metal–oxalate complexes on an anion-exchange column 719(1996)457

Mechanistic model of retention in protein ion-exchange chromatography 726(1996)45

Comparison of methods for extracting linear solvent strength gradient parameters from gradient chromatographic data 727(1996)1

Retention model for singly and doubly charged analytes in ion-interaction chromatography 728(1996)55

Application of different isotherm models to the description of single-component and competitive adsorption data 734(1996)83

Retention models for the ion chromatographic separations of metals in the presence of complexing agents 737(1996)129

Ion-pair chromatography of methotrexate in a column-switching system using an alkyl-diol silica precolumn for direct injection of plasma 742(1996)113

Ion chromatographic separation of selenite and selenate using a polyanionic eluent 749(1996)115

Retention parameters

Solute retention in gas and supercritical fluid chromatography versus pairwise interactions within the system: a numerical treatment in perturbations of molecular parameters 738(1996)101

Retention prediction

Optimization of temperature-programmed gas chromatographic separations. I. Prediction of retention times and peak widths from retention indices 718(1995)339

Solvatochromic parameter values and pH in aqueous–organic mixtures used in liquid chromatography Prediction of retention of a series of quinolones 719(1996)27

Retention behavior of quinolones in reversed-phase liquid chromatography 722(1996)69

Mechanistic model of retention in protein ion-exchange chromatography 726(1996)45

High-performance liquid chromatographic separation of the impurities in a pharmaceutical raw material with the aid of computer simulation 729(1996)189

Gas–solid retention volumes of organic compounds on styrene–divinylbenzene and ethylvinylbenzene–divinylbenzene copolymer sorbent beads 732(1996)317

Comparison of the behaviour of gas–liquid and gas–liquid–solid capillary columns through the determination of thermodynamic characteristics 742(1996)151

Retention times

Simple and efficient methane-marker devices for chromatographic samples 721(1996)157

Retention volume, specific

Measuring specific retention volumes in capillary gas chromatography with improved accuracy and precision 721(1996)147

Gas–solid retention volumes of organic compounds on styrene–divinylbenzene and ethylvinylbenzene–divinylbenzene copolymer sorbent beads 732(1996)317

Reverse transcriptase inhibitors

Simultaneous determination of L-702,007, a HIV-1 reverse transcriptase inhibitor, and its 6-hydroxy metabolite in human plasma by column-switching high-performance liquid chromatography with fluorescence detection 729(1996)211

Reviews

- Separation of biomolecules using adsorptive membranes 702(1995)3
- Principles and applications of unified chromatography 703(1995)17
- Liquid chromatography–mass spectrometry. General principles and instrumentation 703(1995)37
- Biomedical and biochemical applications of liquid chromatography–mass spectrometry 703(1995)59
- Column liquid chromatography–mass spectrometry: selected techniques in environmental applications for polar pesticides and related compounds 703(1995)81
- On-line use of NMR detection in separation chemistry 703(1995)123
- Coupled-column reversed-phase liquid chromatography in environmental analysis 703(1995)149
- Selected procedures for the monitoring of polar pesticides and related microcontaminants in aquatic samples 703(1995)167
- Biospecific detection in liquid chromatography 703(1995)191
- Development of the transfer techniques for on-line high-performance liquid chromatography–capillary gas chromatography 703(1995)265
- Trace level analysis of micropollutants in aqueous samples using gas chromatography with on-line sample enrichment and large volume injection 703(1995)277
- Two-dimensional gas chromatography: principles, instrumentation, methods 703(1995)309
- Comprehensive multi-dimensional gas chromatography 703(1995)327
- Multispectral detection for gas chromatography 703(1995)335
- Element-specific chromatographic detection by atomic absorption, plasma atomic emission and plasma mass spectrometry 703(1995)393
- Critical review of the analysis of non- and mono-*ortho*-chlorobiphenyls 703(1995)417
- Recent developments in supercritical fluid chromatography–mass spectrometry coupling 703(1995)479
- Applications of supercritical fluid extraction in multidimensional systems 703(1995)523
- Supercritical fluid extraction coupled directly with Fourier transform infrared spectrometry 703(1995)537
- Supercritical fluid extraction in environmental analysis 703(1995)549
- Multidimensionality in planar chromatography 703(1995)573
- Planar chromatography coupled with spectroscopic techniques 703(1995)613
- Capillary electrophoresis–mass spectrometry 703(1995)667
- Laser-induced fluorescence detection of native-fluorescent analytes in column liquid chromatography, a critical evaluation 704(1995)1
- High-speed high-performance liquid chromatography of peptides and proteins 705(1995)3
- Protein mass spectrometry: applications to analytical biotechnology 705(1995)21
- Chemical methods of protein sequence analysis 705(1995)47
- Isoelectric focusing as a tool for the investigation of post-translational processing and chemical modifications of proteins 705(1995)67
- Fluorophore-assisted carbohydrate electrophoresis. Technology and applications 705(1995)89
- Host cell contaminant protein assay development for recombinant biopharmaceuticals 705(1995)105
- Moisture content in proteins: its effects and measurement 705(1995)115
- Processing of C-terminal lysine and arginine residues of proteins isolated from mammalian cell culture 705(1995)129
- Current trends in molecular recognition and bioseparation (Review) 707(1995)3
- Preparative chromatographic separations in pharmaceutical, diagnostic, and biotechnology industries: current and future trends (Review) 707(1995)23
- Carbon sorbents and their utilization for the preconcentration of organic pollutants in environmental samples 707(1995)145
- Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3
- Application of chromatographic studies of air pollution in China 710(1995)21
- Detection methods for the analysis of biogenic non-methane hydrocarbons in air 710(1995)39
- On-site monitoring of volatile organic compounds as hazardous air pollutants by gas chromatography 710(1995)51

- Recent applications of gas and high-performance liquid chromatographic techniques to the analysis of polycyclic aromatic hydrocarbons in airborne particulates 710(1995)79
- Air sampling and analysis of polycyclic aromatic hydrocarbons 710(1995)93
- Determination of benzanthrone in environmental samples 710(1995)109
- Chromatographic determination of benz[*c*]acridines and related compounds in airborne carcinogens 710(1995)117
- Derivatization and chromatographic determination of aldehydes in gaseous and air samples 710(1995)159
- Optimisation of selectivity in capillary electrophoresis with emphasis on micellar electrokinetic capillary chromatography 715(1995)1
- Importance of stereospecific bioanalytical monitoring in drug development 719(1996)3
- High-resolution thin-layer chromatography of gangliosides 720(1996)3
- Characterization of neutral sugars and uronic acids after methanolysis and trimethylsilylation for recognition of plant gums 720(1996)27
- Recent progress in the analysis of sugar monomers from complex matrices using chromatography in conjunction with mass spectrometry or stand-alone tandem mass spectrometry 720(1996)51
- Supercritical fluid chromatography of carbohydrates 720(1996)61
- Recent progress in carbohydrate separation by high-performance liquid chromatography based on hydrophilic interaction 720(1996)75
- Recent progress in reversed-phase and hydrophobic interaction chromatography of carbohydrate species 720(1996)93
- High-performance liquid chromatographic separation of carbohydrates on graphitized carbon columns 720(1996)119
- Ligand-exchange chromatography of carbohydrates and glycoconjugates 720(1996)127
- Carbohydrate analyses with high-performance anion-exchange chromatography 720(1996)137
- Recent progress in carbohydrate separation by high-performance liquid chromatography based on size exclusion 720(1996)151
- Precolumn derivatization for chromatographic and electrophoretic analyses of carbohydrates 720(1996)173
- Postcolumn derivatization for chromatographic analysis of carbohydrates 720(1996)183
- Enzymatic release of oligosaccharides from glycoproteins for chromatographic and electrophoretic analysis 720(1996)201
- Three-dimensional mapping of N-linked oligosaccharides using anion-exchange, hydrophobic and hydrophilic interaction modes of high-performance liquid chromatography 720(1996)217
- Preparative purification of tyrosinamide N-linked oligosaccharides 720(1996)235
- Fractionation of glycoprotein-derived oligosaccharides by affinity chromatography using immobilized lectin columns 720(1996)251
- Oligosaccharide sequencing based on exo- and endoglycosidase digestion and liquid chromatographic analysis of the products 720(1996)263
- High-performance liquid chromatographic analysis of glycosaminoglycan-derived oligosaccharides 720(1996)275
- Fluorophore-assisted carbohydrate electrophoresis in the separation, analysis, and sequencing of carbohydrates 720(1996)295
- Separation of negatively charged carbohydrates by capillary electrophoresis 720(1996)323
- Separation of neutral carbohydrates by capillary electrophoresis 720(1996)337
- Detection of carbohydrates in capillary electrophoresis 720(1996)353
- Analysis of glycoproteins, glycopeptides and glycoprotein-derived oligosaccharides by high-performance capillary electrophoresis 720(1996)377
- Matrix-assisted laser desorption/ionisation mass spectrometry of oligosaccharides and glycoconjugates 720(1996)429
- Biosensors in bioprocess monitoring (Review) 725(1996)3
- Sampling and analytical strategies in on-line bioprocess monitoring and control (Review) 725(1996)13
- Analytical methods for the measurement of leukotrienes and other eicosanoids in biological samples from asthmatic subjects (Review) 725(1996)29
- Applications of liquid chromatography–mass spectrometry interfacing systems in food analysis: pesticide, drug and toxic substance residues 727(1996)153
- Chromatographic and related spot tests for the detection of water pollutants 733(1996)5
- Derivatization reactions for the determination of amines by gas chromatography and their applications in environmental analysis 733(1996)19
- Direct supercritical fluid extraction of water-based matrices 733(1996)35

- Determination of Cs-137 in environmental water by ion-exchange chromatography (Review) 733(1996)57
- Suppressed ion chromatographic analysis of anions in environmental waters containing high salt concentrations (Review) 733(1996)73
- Environmental analysis of volatile organic compounds in water and sediment by gas chromatography 733(1996)119
- Solid-phase microextraction coupled to gas chromatography: a new method for the analysis of organics in water 733(1996)143
- Chromatographic tools for analyzing and tracking non-ionic surfactants in the aquatic environment 733(1996)185
- Chromatographic determination of non-ionic aliphatic surfactants of the alcohol polyethoxylate type in the environment (Review) 733(1996)193
- Extraction methodology and chromatography for the determination of residual pesticides in water 733(1996)217
- Comparison of gas and liquid chromatography for analysing polar pesticides in water samples (Review) 733(1996)235
- Determination of triazine herbicides in environmental samples 733(1996)295
- Monitoring of herbicide pollution in water by capillary electrophoresis 733(1996)337
- Methods of isolation and determination of volatile organohalogen compounds in natural and treated waters 733(1996)417
- Current developments in the analysis of water pollution by polychlorinated biphenyls 733(1996)449
- Methods of analysis of polar aromatic sulfonates from aquatic environments 733(1996)473
- Non-linear waves in chromatography (Review) 734(1996)7
- Micellar electrokinetic chromatography. Perspectives in drug analysis 735(1996)3
- Capillary electrophoretic analyses of drugs in body fluids: sample pretreatment and methods for direct injection of biofluids (Review) 735(1996)29
- Determination of drug-related impurities by capillary electrophoresis 735(1996)43
- Enantiomer separation of drugs by electrokinetic chromatography 735(1996)57
- Identification of chiral drug isomers by capillary electrophoresis (Review) 735(1996)77
- Capillary electrophoresis of cardiovascular drugs 735(1996)123
- Capillary electrophoresis of diuretics (Review) 735(1996)151
- Capillary isoelectric focusing as a tool in the examination of antibodies, peptides and proteins of pharmaceutical interest 735(1996)165
- Capillary gel electrophoresis and antisense therapeutics (Review) 735(1996)191
- Accreditation in the UK for pesticide residue analysis in foods 737(1996)3
- Recent advances in ion chromatography: A perspective (Review) 739(1996)3
- High-performance liquid chromatography and detection of polyethers and their mono(carboxy)alkyl and -arylalkyl substituted derivatives (Review) 742(1996)1
- Purification and assay methods for angiotensin-converting enzyme (Review) 743(1996)105
- Preconcentration and microreaction technology on-line with capillary electrophoresis (Review) 744(1996)3
- Regulation of cellulose-based adsorbent granule morphology (Review) 746(1996)147
- Future potential of targeted component analysis by multidimensional liquid chromatography-mass spectrometry (Review) 750(1996)3
- Vaporising systems for large volume injection or on-line transfer into gas chromatography: classification, critical remarks and suggestions (Review) 750(1996)11
- Improvement of quality control of speciation analysis using hyphenated techniques (Review) 750(1996)25
- Riemann problems**
- Non-linear waves in chromatography (Review) 734(1996)7

S

Sabal serrulata

Simultaneous quantitation of lauric acid and ethyl laurate in *Sabal serrulata* by capillary gas chromatography and derivatisation with trimethyl sulphoniumhydroxide 719(1996)479

Saccharomyces cerevisiae

Separation of twenty isomers of ribonucleotides and deoxyribonucleotides by reversed-phase ion-pairing high-performance liquid chromatography 732(1996)271

Sake

Determination of mono-, poly- and hydroxy-carboxylic acid profiles of beverages as their 2-nitrophenylhydrazides by reversed-phase ion-pair chromatography 721(1996)261

Salt effects

Salt effect on size-exclusion chromatography of partially sulfonated alternating copolymers of maleic acid and styrene in a polar solvent 704(1995)149

Sample collectors

Field comparison of polyurethane foam plugs and mini-tubes containing Tenax-TA resin as trapping media for the aerodynamic gradient measurement of trifluralin vapour fluxes 710(1995)251

Sample dimensionality

Sample dimensionality: a predictor of order-disorder in component peak distribution in multidimensional separation 703(1995)3

Sample handling

see also Clean-up methods, Extraction methods, Preconcentration and Special issue index

Trace level analysis of micropollutants in aqueous samples using gas chromatography with on-line sample enrichment and large volume injection 703(1995)277

Critical review of the analysis of non- and mono-*ortho*-chlorobiphenyls 703(1995)417

Detection of iodide in geologic materials by high-performance liquid chromatography 706(1995)215

Combined liquid-liquid electroextraction-isotachopheresis for loadability enhancement in capillary zone electrophoresis-mass spectrometry 712(1995)227

Steam distillation-solvent extraction, a selective sample enrichment technique for the gas chromatographic-electron-capture detection of organochlorine compounds in milk powder and other milk products 712(1995)355

Experimental study on the separation of silica gel supports by gravitational field-flow fractionation. II. Sample preparation, stop-flow procedure and overloading effect 715(1995)259

Concentration and separation of hypoglycemic drugs using solid-phase extraction-capillary electrophoresis 717(1995)279

Automated sample preparation for cholesterol determination in foods 718(1995)371

Determination of 1,2,6-inositol trisphosphate (derivatives) in plasma using iron(III)-loaded adsorbents and capillary zone electrophoresis-(indirect) UV detection 718(1995)413

Purge-and-trap method for the determination of styrene in urine 719(1996)53

Determination of benzene and alkylated benzenes in ambient and exhaled air by microwave desorption coupled with gas chromatography-mass spectrometry 719(1996)383

Prediction from liquid chromatographic data of obligatory backflush desorption from solid-phase extraction cartridges packed with porous graphitic carbon 725(1996)57

Analysis of microcontaminants in aqueous samples by fully automated on-line solid-phase extraction-gas chromatography-mass selective detection 725(1996)67

Determination of herbicides in surface water by means of a supported liquid membrane technique and high-performance liquid chromatography 725(1996)121

Direct injection of large volumes of plasma in a column-switching system for the analysis of local anaesthetics 725(1996)137

Systematic analysis of glucosidoids from *Penstemon serrulatus* Menz. by high-performance liquid chromatography with pre-column solid-phase extraction 725(1996)177

Liquid membrane enrichment for the ion chromatographic determination of carboxylic acids in soil samples 725(1996)189

Determination of thiamine in dried yeast by high-performance liquid chromatography using a clean-up column of CM-cellulose 726(1996)237

High-performance liquid chromatographic determination of vancomycin in rabbit serum, vitreous and aqueous humour after intravitreal injection of the drug 727(1996)231

Analyte preconcentration procedure based on parallel-current open-tubular liquid chromatography 728(1996)311

Ion-pairing mechanism in the solid-phase extraction and reversed-phase high-performance liquid chromatographic determination of acidic herbicides in water 728(1996)319

Fully automated determination of selective retinoic acid receptor ligands in mouse plasma and tissue by reversed-phase liquid chromatography coupled on-line with solid-phase extraction 729(1996)125

Sample preparation for the determination of purine nucleotide analogues in tissues 729(1996)197

Determination of ethambutol in human plasma and urine by high-performance liquid chromatography with fluorescence detection 729(1996)301

- High-performance liquid chromatographic evaluation of biogenic amines in foods 729(1996)363
- Prefractionation of aroma extracts from fat-containing food by high-performance size-exclusion chromatography 729(1996)371
- Solid-phase extraction and reversed-phase high-performance liquid chromatography of free phenolic acids in some *Echinacea* species 730(1996)25
- Automation of sample preparation as a preliminary stage in the high-performance liquid chromatographic determination of polyphenolic compounds in sherry wines 730(1996)39
- Pesticide analysis by micellar electrokinetic capillary chromatography 730(1996)337
- Solid-phase extraction for the selective isolation of polycyclic aromatic hydrocarbons, azaarenes and heterocyclic aromatic amines in charcoal-grilled meat 731(1996)85
- On-line preconcentration, cleanup and high-performance liquid chromatographic determination of chlorophenoxy acid herbicides in water 731(1996)115
- Quantification of toxic hydrocarbon target compounds in engine exhaust and air by aluminum oxide porous-layer open-tubular capillary gas chromatography-mass spectrometry using isotopically labeled internal standards 731(1996)217
- Determination of ten carbamate pesticides in aquatic and sediment samples by liquid chromatography-ionspray and thermospray mass spectrometry 733(1996)283
- Comparison of different sorbent materials for on-line liquid-solid extraction followed by liquid chromatographic determination of priority phenolic compounds in environmental waters 733(1996)371
- Determination of pentachlorophenol in water samples by capillary zone electrophoresis 733(1996)395
- Methods of isolation and determination of volatile organohalogen compounds in natural and treated waters 733(1996)417
- Current developments in the analysis of water pollution by polychlorinated biphenyls 733(1996)449
- Use of porous polymers in off-line preconcentration of nitrobenzenes and their reduction products from water 733(1996)491
- Automated purification of microcystins 734(1996)175
- Capillary electrophoretic analyses of drugs in body fluids: sample pretreatment and methods for direct injection of biofluids (Review) 735(1996)29
- Application of capillary electrophoresis and related techniques to drug metabolism studies 735(1996)415
- Gel permeation chromatography-high-performance liquid chromatography combination as an automated clean-up technique for the multiresidue analysis of fats 737(1996)9
- Evaluation of new polymeric sorbents with high specific surface areas using an on-line solid-phase extraction-liquid chromatographic system for the trace-level determination of polar pesticides 737(1996)15
- On-line solid-phase extraction in liquid chromatography using restricted access pre-columns for the analysis of *s*-triazines in humic-containing waters 737(1996)35
- Automated sample preparation with extraction columns followed by liquid chromatography-ionspray mass spectrometry. Interferences, determination and degradation of polar organophosphorus pesticides in water samples 737(1996)47
- Development of a prototype system for quasi-continuous analysis of organic contaminants in surface or sewage water based on in-line coupling of solid-phase microextraction to gas chromatography 737(1996)59
- Analysis of chlorinated 1,3-butadienes by solid-phase microextraction and gas chromatography-mass spectrometry 737(1996)85
- On-line and off-line solid-liquid extraction and liquid chromatographic analysis at trace levels, for monitoring of herbicides and their degradation products in river and fluvio-estuarine freshwater-seawater interfaces 737(1996)117
- Determination of phenolic compounds in natural waters by liquid chromatography with ultraviolet and electrochemical detection after on-line trace enrichment 738(1996)1
- Sample preparation techniques for determining semi-volatile organic compounds in nuclear defense materials production waste 738(1996)215
- Approaches to sample preparation for ion chromatography 739(1996)49
- Methods for concentrating metal ions prior to analysis by ion chromatography or capillary electrophoresis 739(1996)57
- On-line preconcentration and separation of neutral and charged aromatic compounds by ion interaction chromatography 739(1996)63
- Comparison of the chelating ion exchange properties of dye coated cellulose and polystyrene substrates for the separation and determination of trace metals from aqueous media 739(1996)81
- Simultaneous analysis of some transition metals at ultra-trace level by ion-exchange chromatography with on-line preconcentration 739(1996)119
- Sample pretreatment by UV photolysis for the ion chromatographic analysis of plant material 739(1996)167

Measurement of phenols on a loop-supported liquid film by micellar electrokinetic chromatography and direct UV detection 739(1996)379

Chlorinated acid herbicides in water by strong anion-exchange disk extraction and in-vial elution and derivatization 741(1996)85

Ion-pair chromatography of methotrexate in a column-switching system using an alkyl-diol silica precolumn for direct injection of plasma 742(1996)113

Application of solid-phase microextraction to the analysis of volatile organic compounds in water 742(1996)181

Preconcentration and microreaction technology on-line with capillary electrophoresis (Review) 744(1996)3

High-performance liquid chromatographic determination of flumetsulam, a newly developed sulfonamide herbicide in soil 746(1996)25

Analysis of chloro- and nitroanilines and -benzenes in soils by headspace solid-phase microextraction 746(1996)71

Automated at-line solid-phase extraction-gas chromatographic analysis of micropollutants in water using the PrepStation 750(1996)161

Fat content for nutritional labeling by supercritical fluid extraction and an on-line lipase catalyzed reaction 750(1996)201

Automated on-line solid-phase extraction-high-performance liquid chromatography-diode array detection of phenolic compounds in sherry wine 750(1996)209

Solid-phase extraction of polar pesticides from environmental water samples on graphitized carbon and Empore-activated carbon disks and on-line coupling to octadecyl-bonded silica analytical columns 750(1996)227

Coupling of thermal desorption in modified closeable sampling columns with wide-bore capillary gas chromatography and mass spectrometric detection 750(1996)239

Automated on-line gel permeation chromatography-gas chromatography for the determination of organophosphorus pesticides in olive oil 750(1996)275

Automated determination of verapamil and norverapamil in human plasma with on-line coupling of dialysis to high-performance liquid chromatography and fluorometric detection 750(1996)351

Sample loading

Effect of stationary phase on preparative protein separation in reversed-phase chromatography 702(1995)157

Sample purity

All-metal collection system for preparative-scale gas chromatography. Purification of low-boiling-point compounds 702(1995)243

Sample self-stacking

Investigation of matrix effects in capillary zone electrophoresis 734(1996)319

Sample solution composition

Separation of alkylbenzyl quaternary ammonium compounds by capillary zone electrophoresis. Effect of organic solvent in sample solution 723(1996)189

Sample stacking

Capillary electrophoresis of methylmercury with injection by sample stacking 730(1996)345

Sample zone composition

Calculation of the composition of sample zones in capillary zone electrophoresis 741(1996)265

Sampling cartridges

Artifact-free preparation, storage and analysis of solid adsorbent sampling cartridges used in the analysis of volatile organic compounds in air 732(1996)414

Sampling devices

Assessing breakthrough times for denuder samplers with emphasis on volatile organic compounds 723(1996)301

Sampling methods

Ion chromatography of organic-rich natural waters from peatlands. V. Fe^{2+} and Fe^{3+} 706(1995)293

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Laboratory validation of a diffusive sampler for the determination of glutaraldehyde in air 710(1995)175

Sampling and analysis of 1,3-butadiene in air by gas chromatography on a porous-layer open-tubular fused-silica column 710(1995)237

Monitoring of pesticides in air by gas chromatography-mass spectrometry and the use of quartz-fibre wool and activated carbon for sampling 710(1995)243

Sampling and analytical strategies in on-line bioprocess monitoring and control (Review) 725(1996)13

Membrane characterisation and performance of microdialysis probes intended for use as bioprocess sampling units 725(1996)41

On-line quantitation of enzymatic mannan hydrolysates in small-volume bioreactors by microdialysis sampling and column liquid chromatography-integrated pulsed electrochemical detection 725(1996)165

Solid sorbent method for the collection and analysis of volatile halogenated organic compounds in soil gas 738(1996)73

Sann-Joong-Kuey-Jian-Tang

Determination of gentiopicridoside, mangiferin, palmatine, berberine, baicalin, wogonin and glycyrrhizin in the traditional Chinese medicinal preparation Sann-Joong-Kuey-Jian-Tang by high-performance liquid chromatography 730(1996)17

Scanning electron microscopy

Study of the physico-chemical properties of some packing materials 736(1996)21

Characterisation of inner surface and adsorption phenomena in fused-silica capillary electrophoresis capillaries 744(1996)93

Sclerotinia sclerotiorum

High-performance liquid chromatography with photodiode array detection for analysis of the fungal metabolite sclerin 741(1996)131

SE-54 stationary phase

Packed capillary column supercritical fluid chromatography using SE-54 polymer encapsulated silica 707(1995)303

Secreted alkaline phosphatase assay

Isolation of anti-HIV-1 lignans from *Larrea tridentata* by counter-current chromatography 719(1996)353

Sediment pore water

Simultaneous determination of small organic and inorganic anions in environmental water samples by ion-exchange chromatography 706(1995)259

Sediments

Detection of iodide in geologic materials by high-performance liquid chromatography 706(1995)215

Determination of permethrin and cyfluthrin in water and sediment by gas chromatography-mass spectrometry operated in the negative chemical ionization mode 707(1995)293

Simultaneous determination of tebufenozide and five of its intact metabolites from forestry matrices by high-performance liquid chromatography 708(1995)71

Determination of organophosphorus pesticides in environmental samples by capillary gas chromatography-mass spectrometry 709(1995)319

Optimization of microwave-assisted solvent extraction of polycyclic aromatic hydrocarbons in marine sediments using a microwave extraction system with high-performance liquid chromatography-fluorescence detection and gas chromatography-mass spectrometry 723(1996)259

Optimization study for the speciation analysis of organotin and organogermanium compounds by on-column capillary gas chromatography with flame photometric detection using quartz surface-induced luminescence 727(1996)119

Environmental analysis of volatile organic compounds in water and sediment by gas chromatography 733(1996)119

Determination of ten carbamate pesticides in aquatic and sediment samples by liquid chromatography-ionspray and thermospray mass spectrometry 733(1996)283

Use of capillary gas chromatography for measuring fecal-derived sterols. Application to stormwater, the sea-surface microlayer, beach greases, regional studies, and distinguishing algal blooms and human and non-human sources of sewage pollution 733(1996)497

Optimization of a drying method for filtered suspended solids from natural waters for supercritical fluid extraction analysis of hydrophobic organic compounds 738(1996)253

Determination of total phosphorus in sediments by means of high-pressure bombs and ion chromatography 739(1996)223

Hyphenated techniques for characterizing coal wastewaters and associated sediments 750(1996)287

Selectivity

Control of selectivity in micellar electrokinetic chromatography by modification of sodium dodecyl sulfate micelles with organic hydroxy compounds 705(1995)319

Selectivity enhancement on a poly(butadiene-maleic acid)-coated cation phase induced by ethylene oxide-based complexing agents 706(1995)103

Comparison of separation selectivity in aqueous and non-aqueous capillary electrophoresis 711(1995)313

Optimisation of selectivity in capillary electrophoresis with emphasis on micellar electrokinetic capillary chromatography 715(1995)1

Capillary electrophoresis of inorganic anions and organic acids using suppressed conductivity detection. Strategies for selectivity control 717(1995)371

Optimization of chiral selectivity on cellulose-based high-performance liquid chromatographic columns using aprotic mobile-phase modifiers 718(1995)9

Effect of silver-modified silica on retention and selectivity in normal-phase liquid chromatography 722(1996)81

Chromatography of bovine lactoserum on the immobilized metallized dye Drimarene Rubine R/K 5BL. Modulation of selectivity by metal exchange and application to purification of milk immunoglobulins 725(1996)237

Chemical selectivity in micellar electrokinetic chromatography 738(1996)265

Method for obtaining unique selectivities in ion-exchange chromatography by addition of organic polymers to the mobile phase 743(1996)51

Separation parameters via virtual migration distances in high-performance liquid chromatography, capillary zone electrophoresis and electrokinetic chromatography 743(1996)231

Selectivity, differential mobility and resolution as parameters to optimize capillary electrophoretic separation 744(1996)115

Controlled changes in selectivity of cation separations by capillary electrophoresis using various crown-ether additives 745(1996)87

Selectivity shifts

Thermodynamic background of selectivity shifts in temperature-programmed, constant-density supercritical fluid chromatography 718(1995)147

Semiconductors

Application of ion chromatography to the analysis of high-purity CdTe 739(1996)131

Sensitivity enhancement

Pre-column derivatization of proteins to enhance detection sensitivity for sodium dodecyl sulfate non-gel sieving capillary electrophoresis 715(1995)167

Sensitivity enhancement effect in off-column detection for capillary electrophoresis 726(1996)205

Detectability enhancement by the use of large-volume injections in gas chromatography–cryotrapping–Fourier transform infrared spectrometry 732(1996)75

Capillary electrophoresis methods development and sensitivity enhancement strategies for the separation of industrial and environmental chemicals 744(1996)123

Sensors

Detection of neu differentiation factor with a biospecific affinity sensor during chromatography 705(1995)163

Determining the characteristics of water pollutants by neural sensors and pattern recognition methods 722(1996)233

Separation parameters

Separation parameters via virtual migration distances in high-performance liquid chromatography, capillary zone electrophoresis and electrokinetic chromatography 743(1996)231

Separation selectivity

Control of separation selectivity and electroosmotic flow in nonaqueous capillary electrophoretic separations of alkali and alkaline earth metal ions 749(1996)279

Separation selectivity model

Buffer effects in the desionoselective/ionoselective/duoselective separation selectivity model-assisted optimization of the capillary electrophoretic separation of enantiomers. I. Low-pH phosphate buffers 716(1995)197

Sequencing methods

Chemical methods of protein sequence analysis 705(1995)47

Sewage pollution

Use of capillary gas chromatography for measuring fecal-derived sterols. Application to stormwater, the sea-surface microlayer, beach greases, regional studies, and distinguishing algal blooms and human and non-human sources of sewage pollution 733(1996)497

Sewage treatment plant effluent

Determination of nitrilotriacetic, ethylenediaminetetraacetic and diethylenetriaminepentaacetic acids in sewage treatment plant and paper mill effluents 738(1996)91

Sheath liquid probe

Optimization of conditions for the analysis of a peptide mixture and a tryptic digest of cytochrome *c* by capillary electrophoresis–electrospray-ionization mass spectrometry with an improved liquid-sheath probe 712(1995)245

Shock layer

Shock layer analysis for a single-component in preparative elution chromatography 708(1995)1

Steady-state concentration boundary profile for the injection of a single-component feed in counter-current chromatography 728(1996)25

Non-linear waves in chromatography (Review) 734(1996)7

Shock layer thickness

Optimum liquid and solid-phase velocity for minimum shock layer thickness in counter-current chromatography 721(1996)187

Signal suppression

Enhanced sensitivity for peptide mapping with electrospray liquid chromatography–mass spectrometry in the presence of signal suppression due to trifluoroacetic acid-containing mobile phases 712(1995)177

Silanization

Adsorption of oxysterols on different microtube materials during silanization prior to gas chromatographic determination 705(1995)396

Silanol groups

End-capping of octadecylsilylated silica gels by high-temperature silylation 737(1996)139

Silica

Activated silica supports for preparation of chromatographic sorbents. A comparative study of silicas containing attached epoxy, tosyloxy and halogen groups 719(1996)291

Performance of pH elution in high-performance affinity chromatography of proteins using non-porous silica 721(1996)31

Comparison of an ordered mesoporous aluminosilicate, silica, alumina, titania and zirconia in normal-phase high-performance liquid chromatography 740(1996)1

Silica gel

Calibration of the thermal desorption-gas chromatography–mass spectrometry system using standards generated in the process of thermal decomposition of chemically modified silica gel 742(1996)175

Silica, magnesia-coated

Preparation and evaluation of magnesia-coated silica as column packing material for high-performance liquid chromatography 704(1995)45

Silica, octadecylsilylated

End-capping of octadecylsilylated silica gels by high-temperature silylation 737(1996)139

Silica, polymer encapsulated

Packed capillary column supercritical fluid chromatography using SE-54 polymer encapsulated silica 707(1995)303

Silica, silver-modified

Effect of silver-modified silica on retention and selectivity in normal-phase liquid chromatography 722(1996)81

Silica gel

Experimental study on the separation of silica gel supports by gravitational field-flow fractionation. II. Sample preparation, stop-flow procedure and overloading effect 715(1995)259

Silica gel, copper(II) complexes-modified

Chemically bonded chelates as selective complexing sorbents for gas chromatography. IV. Silica surfaces modified with Co(II) and Ni(II) complexes 723(1996)313

Silica gel, nickel(II) complexes-modified

Chemically bonded chelates as selective complexing sorbents for gas chromatography. IV. Silica surfaces modified with Co(II) and Ni(II) complexes 723(1996)313

Silica particles

Experimental study on the retention of silica particles in gravitational field-flow fractionation 740(1996)245

Silicon–glass chip

Analysis of ligase chain reaction products amplified in a silicon–glass chip using capillary electrophoresis 732(1996)151

Silver ion complexation

Enrichment of chlorinated fatty acids in fish lipids prior to analysis by capillary gas chromatography with electrolytic conductivity detection and mass spectrometry 731(1996)225

Silver ion liquid chromatography

Mechanistic aspects of fatty acid retention in silver ion chromatography 749(1996)47

Silver-modified silica

Effect of silver-modified silica on retention and selectivity in normal-phase liquid chromatography 722(1996)81

Silver nitrate-impregnated silica

Modified and convenient preparation of silica impregnated with silver nitrate and its application to the separation of steroids and triterpenes 715(1995)372

Simplex optimization

Method to study the separation of eight *p*-hydroxybenzoic esters by gas chromatography 727(1996)93

Simulated counter-current chromatography

Preliminary design of a simulated counter-current chromatographic system for the separation of praziquantel enantiomers 734(1996)247

Simulated distillation

Coupled simulated distillation–mass spectrometry for the evaluation of hydroconverted petroleum residues 750(1996)97

Simulated moving bed chromatography

Complete design of a simulated moving bed 702(1995)97

Separation of enantiomers of 1*a*,2,7,7*a*-tetrahydro-3-methoxynaphtha-(2,3*b*)-oxirane by liquid chromatography: laboratory-scale elution chromatography and modelling of simulated moving bed 702(1995)223

Continuous biospecific affinity purification of enzymes by simulated moving-bed chromatography. Theoretical description and experimental results 719(1996)267

Simulation, GC

Optimization of temperature-programmed gas chromatographic separations. I. Prediction of retention times and peak widths from retention indices 718(1995)339

Simulation program

MECCSIM, training software for micellar electrokinetic capillary chromatography 709(1995)21

Simulation studies

Perfusion chromatography: performance of periodic countercurrent column operation and its comparison with fixed-bed operation 711(1995)3

Simulation techniques

Three-dimensional molecular simulation of chromatographic separations 722(1996)3

Simulation of the combined continuous and preparative gas–liquid chromatographic separation of three close-boiling components 734(1996)145

Single raindrops

Analysis of single raindrops in the nl range by capillary electrophoresis 745(1996)209

Siphoning effect

Rectangular capillary electrophoresis: study of some dispersive effects 737(1996)243

Size-exclusion chromatography

Determination of the compositional heterogeneity of polydisperse polymer samples by the coupling of size-exclusion chromatography and thermal field-flow fractionation 703(1995)245

Recent progress in carbohydrate separation by high-performance liquid chromatography based on size exclusion 720(1996)151

Solution properties of polyelectrolytes. XII. Semi-quantitative approach to mixed electrostatic and hydrophobic polymer-gel interactions 721(1996)203

Fast, reproducible size-exclusion chromatography of biological macromolecules 743(1996)43

Size exclusion chromatography, inverse

Regulation of cellulose-based adsorbent granule morphology (Review) 746(1996)147

Slalom chromatography

Applied slalom chromatography. Improved DNA separation by the use of columns developed for reversed-phase chromatography 722(1996)135

Slurry packing

Study of the flow development during the slurry packing of microcolumns for liquid chromatography 728(1996)33

Snow

Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography 706(1995)249

Soap, antibacterial

Determination of chloroanilines in antibacterial soaps using cation-exchange chromatography with UV detection 719(1996)434

Sodium

Determination of trace level ions by high-volume direct-injection ion chromatography 739(1996)71

Sodium dodecyl sulfate micelles

Quantitative micellar chromatographic analysis of interaction between peptides and sodium dodecyl sulfate micelles 741(1996)49

Soft drinks

High-performance liquid chromatography with electrochemical detection of aspartame with a post-column photochemical reactor 729(1996)393

Software

"Chromatogram generator" chromatogram modelling software 706(1995)31

MECCSIM, training software for micellar electrokinetic capillary chromatography 709(1995)21

Soil

Detection of iodide in geologic materials by high-performance liquid chromatography 706(1995)215

Determination of polycyclic aromatic hydrocarbons in soil samples by micellar electrokinetic capillary chromatography with photodiode-array detection 717(1995)309

Optimization of a solid-phase extraction technique for the extraction of pesticides from soil samples 719(1996)69

Pyrolysis-gas chromatography applied to the study of organic matter evolution in sewage sludge-amended soils using nitrogen-phosphorus, flame ionization and mass spectrometric detection 719(1996)131

Comparative study of three extraction procedures for imazamethabenz-methyl in agricultural soil 721(1996)113

Optimization of supercritical fluid extraction of phenol and cresols in soil samples 723(1996)123

Liquid membrane enrichment for the ion chromatographic determination of carboxylic acids in soil samples 725(1996)189

Determination of volatile sulphur species in soil samples of interest for prospecting for metal sulphide deposits 726(1996)161

Qualitative analysis of contaminated environmental extracts by multidimensional gas chromatography with infrared and mass spectral detection (MDGC-IR-MS) 726(1996)167

Simple and rapid determination of the herbicides glyphosate and glufosinate in river water, soil and carrot samples by gas chromatography with flame photometric detection 726(1996)253

Determination of cypermethrin, fenvalerate and *cis*- and *trans*-permethrin in soil and groundwater by high-performance liquid chromatography using partial least-squares regression 727(1996)39

Rapid quantification of the nitrification inhibitor dicyandiamide in soil samples, nutrient media and bacterial cell-free extracts 732(1996)390

Determination of adsorption characteristics of the nutrient orthophosphate to natural colloids by sedimentation field-flow fractionation 733(1996)105

Determination of triazine herbicides in environmental samples 733(1996)295

Liquid chromatographic determination of methabenzthiazuron in soil aqueous solutions with photodiode-array detection 733(1996)367

- High-performance liquid chromatographic determination of ¹⁴C-labelled terbutylazine and principal degradates in percolation water and soil extracts from leaching experiments 737(1996)101
- High-performance liquid chromatographic determination of flumetsulam, a newly developed sulfonamide herbicide in soil 746(1996)25
- Analysis of chloro- and nitroanilines and -benzenes in soils by headspace solid-phase microextraction 746(1996)71
- Determination of imidacloprid in water and soil samples by gas chromatography-mass spectrometry 746(1996)289
- On-line coupled supercritical fluid extraction and chromatography for the determination of thiolcarbamate herbicides in soil matrix 750(1996)175
- Application of ¹³C-labelled polychlorinated biphenyl congener 153 as internal standard in the gas chromatographic-mass spectrometric analysis of polychlorinated biphenyls 750(1996)245
- Soil extracts**
Suppressed ion chromatographic analysis of anions in environmental waters containing high salt concentrations (Review) 733(1996)73
- Soil, forest**
Simultaneous determination of tebufenozide and five of its intact metabolites from forestry matrices by high-performance liquid chromatography 708(1995)71
- Soil, sewage sludge-amended**
Extraction and clean-up methods for improvement of the chromatographic determination of polychlorinated biphenyls in sewage sludge-amended soils: elimination of lipids and sulphur 719(1996)121
- Soil gas**
Solid sorbent method for the collection and analysis of volatile halogenated organic compounds in soil gas 738(1996)73
- Solid carbon paste electrode**
Study of a new solid carbon paste tyrosinase-modified amperometric biosensor for the determination of catecholamines by high-performance liquid chromatography 727(1996)47
- Solid-phase extraction**
see also Extraction methods
- Evaluation of solid-phase extraction procedures in peptide analysis 708(1995)209
- Optimization of a solid-phase extraction technique for the extraction of pesticides from soil samples 719(1996)69
- Comparison of the performance of solid-phase extraction techniques in recovering organophosphorus and organochlorine compounds from water 725(1996)93
- Development of a semi-automated high-performance liquid chromatographic-diode array detection system for screening pesticides at trace levels in aquatic systems of the Axios River basin 726(1996)99
- Influence of organic matter and surfactants on solid-phase extraction of diquat, paraquat and difenzoquat from waters 727(1996)245
- Effects of high-frequency electromagnetic treatment on the solid-phase extraction of aqueous benzene, naphthalene and phenol 731(1996)65
- Evaluation of two new examples of graphitized carbon blacks for use in solid-phase extraction cartridges 733(1996)41
- Disks versus columns in the solid-phase extraction of pesticides from water 733(1996)267
- Rapid, quantitative determination of polar compounds in fats and oils by solid-phase extraction and size-exclusion chromatography using monostearin as internal standard 749(1996)55
- Solid-phase microextraction**
see also Extraction methods
- Solid-phase microextraction of nitrogen-containing herbicides 704(1995)163
- Automated determination of s-triazine herbicides using solid-phase microextraction 705(1995)305
- Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3
- Analysis of organochlorine pesticides using solid-phase microextraction 723(1996)111
- Solid-phase microextraction of the herbicide metolachlor in runoff and tile-drainage water samples 725(1996)129
- Solid-phase microextraction coupled to gas chromatography: a new method for the analysis of organics in water 733(1996)143
- Optimizing split/splitless injection port parameters for solid-phase microextraction 740(1996)139
- Solid-phase velocity**
Optimum liquid and solid-phase velocity for minimum shock layer thickness in counter-current chromatography 721(1996)187
- Solubility parameters**
Derivation of solubility parameters of chlorinated dibenzofurans and dibenzo[*p*]dioxins from gas chromatographic retention parameters via SOFA 715(1995)267

Characterization of cyano-functionalized stationary gas chromatographic phases by linear solvation energy relationships 718(1995)357

Molecular recognition of phenobarbital in plasticizers. Equilibrium investigations on the solubility of the barbiturate artificial receptor and its binding to phenobarbital in plasticizers 722(1996)47

Critical retention behaviour of polymers 727(1996)13

Solubility and polarity parameters for pyridinecarboxamides and their complexes with copper(II) as determined by inverse gas chromatography 740(1996)253

Solute chemical structure

Use of a trio of modified cyclodextrin gas chromatographic phases to provide structural information on some constituents of volatile oils 707(1995)390

Solute distribution

Solute retention in gas and supercritical fluid chromatography versus pairwise interactions within the system: a numerical treatment in perturbations of molecular parameters 738(1996)101

Solute-micelle association constants

Determination of solute-micelle association constants for a group of benzene derivatives and polycyclic aromatic hydrocarbons with sodium dodecyl sulphate by micellar electrokinetic chromatography 732(1996)345

Solute switching detection

Analysis of the possibility of SF₆ detection by a solute switching method with a modulator containing a ⁶³Ni source 743(1996)301

Solution properties

Solution properties of amorphous co- and terpolymers of styrene as examined by inverse gas chromatography 715(1995)127

Solvation parameter model

Solvation in weak complexing *n*-octyl phthalate and *n*-octyl tetrachlorophthalate solvents by gas chromatography 726(1996)141

Solvation parameters

Characterization of cyano-functionalized stationary gas chromatographic phases by linear solvation energy relationships 718(1995)357

Solvatochromic parameters

Solvatochromic parameter values and pH in aqueous-organic mixtures used in liquid chromatography Prediction of retention of a series of quinolones 719(1996)27

Solvatochromic parameter values and pH in acetonitrile-water mixtures. Optimization of mobile phase for the separation of peptides by high-performance liquid chromatography 725(1996)249

Chemical selectivity in micellar electrokinetic chromatography 738(1996)265

Solvent clean-up

Improved baselines in gradient elution 718(1995)429

Solvent evaporation

On-line high-performance liquid chromatography-solvent evaporation-high-performance liquid chromatography-capillary gas chromatography-flame ionisation detection for the analysis of mineral oil polyaromatic hydrocarbons in fatty foods 750(1996)361

Solvents

Experiences with HPLC-grade solvents 715(1995)199

Solvent strength

Influence of organic solvent modifier and solvent strength on peak shape of some basic compounds in high-performance liquid chromatography using a reversed-phase column 708(1995)185

Solvent strength parameters

Comparison of methods for extracting linear solvent strength gradient parameters from gradient chromatographic data 727(1996)1

Solvent systems

Separation and purification of peptides by high-speed counter-current chromatography 702(1995)207

Solvent systems, two-phase

Separation of peptide derivatives by pH-zone-refining counter-current chromatography 702(1995)197

Solvophobic driving forces

Revisionist look at solvophobic driving forces in reversed-phase liquid chromatography. III. Comparison of the behavior of nonpolar and polar solutes 724(1996)1

Sorbents

see also Adsorbents

Application of solid sorbents to the trace analysis of alkyl esters of acrylic acid in air 710(1995)167

Comparison of sorbents for the solid-phase extraction of the highly polar degradation products of atrazine (including ammeline, ammelide and cyanuric acid) 711(1995)257

Sorbent evaluation for diffusive monitoring of environmental contaminants 719(1996)87

Activated silica supports for preparation of chromatographic sorbents. A comparative study of silicas containing attached epoxy, tosyloxy and halogen groups 719(1996)291

Prediction from liquid chromatographic data of obligatory backflush desorption from solid-phase extraction cartridges packed with porous graphitic carbon 725(1996)57

Selective trace enrichment on immunosorbents for the multiresidue analysis of phenylurea and triazine pesticides 725(1996)107

Congo Red and Cu(II) carrying poly(ethylene glycol dimethacrylate-hydroxyethyl methacrylate) microbeads as specific sorbents. Albumin adsorption/desorption 731(1996)57

Gas-solid retention volumes of organic compounds on styrene-divinylbenzene and ethylvinylbenzene-divinylbenzene copolymer sorbent beads 732(1996)317

Comparison of different sorbent materials for on-line liquid-solid extraction followed by liquid chromatographic determination of priority phenolic compounds in environmental waters 733(1996)371

Use of porous polymers in off-line preconcentration of nitrobenzenes and their reduction products from water 733(1996)491

Evaluation of new polymeric sorbents with high specific surface areas using an on-line solid-phase extraction-liquid chromatographic system for the trace-level determination of polar pesticides 737(1996)15

Simple removal of humic and fulvic acid interferences using polymeric sorbents for the simultaneous solid-phase extraction of polar acidic, neutral and basic pesticides 737(1996)25

On-line solid-phase extraction in liquid chromatography using restricted access pre-columns for the analysis of *s*-triazines in humic-containing waters 737(1996)35

Lateral interaction between electrostatically adsorbed and covalently immobilized proteins on the surface of cation-exchange sorbents 743(1996)25

Enzyme-linked immunosorbent assays in a chromatographic format 743(1996)195

Sorbents, carbon

Carbon sorbents and their utilization for the preconcentration of organic pollutants in environmental samples 707(1995)145

Sorption

Studies of the interfacial properties of chemically bonded phases by sorption and liquid chromatography 722(1996)19

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. I. Methodology and validation of the model 726(1996)1

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. II. Slow sorption rate on a microparticle packing 726(1996)25

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. III. Diffusion in the polymer matrix as the cause of slow sorption 726(1996)37

Sour gas treatment

Determination of anions in amine solutions for sour gas treatment 706(1995)339

Soybean

Determination of amino acids in the foods by reversed-phase high-performance liquid chromatography with a new precolumn derivative, butylthiocarbamyl amino acid, compared to the conventional phenylthiocarbamyl derivatives and ion-exchange chromatography 740(1996)31

Determination of protein amino acids as benzylthiocarbamyl derivatives compared with phenylthiocarbamyl derivatives by reversed-phase high-performance liquid chromatography, ultraviolet detection and precolumn derivatization 740(1996)41

Spacer, epoxy-activated

Hydrophobic interaction chromatography of *Chromobacterium viscosum* lipase 707(1995)137

Speciation

Phosphorus speciation in nickel plating baths by ion chromatography 705(1995)390

Chromium speciation by anion-exchange high-performance liquid chromatography with both inductively coupled plasma atomic emission spectroscopic and inductively coupled plasma mass spectrometric detection 712(1995)311

Improvement of quality control of speciation analysis using hyphenated techniques (Review) 750(1996)25

Hyphenation of capillary electrophoresis to inductively coupled plasma mass spectrometry as an element-specific detection method for metal speciation 750(1996)51

Spectral mapping

Determination of the retention behaviour of some non-ionic surfactants on reversed-phase high-performance liquid chromatography supports by spectral mapping in combination with cluster analysis or non-linear mapping 722(1996)281

Spectral scans

Accurate spectral scans of single chromatographic peaks 746(1996)43

Spinach

Determination of nitrite levels in refrigerated and frozen spinach by ion chromatography 706(1995)221

Spot tests

Chromatographic and related spot tests for the detection of water pollutants 733(1996)5

Spruce

Gas chromatographic-mass spectrometric characterization of some fatty acids from white and interior spruce 715(1995)317

Spruce foliage

Simultaneous determination of tebufenozide and five of its intact metabolites from forestry matrices by high-performance liquid chromatography 708(1995)71

Stability constants

Preliminary tests to select operating conditions for the accurate determination of stability constants by cation-exchange chromatography: the Cd^{2+} - Cl^- and Cd^{2+} - NO_3^- systems 706(1995)43

Ionophoretic technique for the determination of stability constants of metal-nitritotriacetate-methionine mixed complexes 718(1995)454

Capillary electrophoretic estimation of sulfate stability constants of metal ions and determination of alkali and alkaline earth metals in waters 745(1996)127

Stability measurements

Stability measurements of antisense oligonucleotides by capillary gel electrophoresis 709(1995)181

Stability studies

Gas chromatography-mass spectrometry study of isosorbide 5-mononitrate stability 746(1996)286

Stacked-membrane chromatography

Estimating plate heights in stacked-membrane chromatography by flow reversal 702(1995)69

Stacking

Peptide stacking by acetonitrile-salt mixtures for capillary zone electrophoresis 744(1996)231

Staining technique

Fast and sensitive staining technique for glucose oxidase in polyacrylamide gel 731(1996)293

Standard additions method

H-Point standard additions method for resolution of overlapping chromatographic peaks with diode array detection by using area measurements 726(1996)57

Staphylococcus aureus

Capillary electrophoresis of *S. nuclease* mutants 705(1995)135

Reversed-phase high-performance liquid chromatographic separation of bovine κ -casein macropeptide and characterization of isolated fractions 743(1996)123

Stationary phase, metal content

Investigations into the epimerisation of tipredane ethylsulphoxide diastereoisomers during chromatographic analysis on reversed-phase silica. II. The involvement of metals in commercially available C_{18} silicas 705(1995)229

Stationary phases

see also Chiral stationary phases

Stationary phases, GC

Use of a trio of modified cyclodextrin gas chromatographic phases to provide structural information on some constituents of volatile oils 707(1995)390

Enhanced selectivity in the analysis of chlorobiphenyls on a carborane phenylmethylsiloxane copolymer gas chromatography phase (HT-8) 708(1995)115

Characterization of micropacked alkyl-bonded silica columns for gas chromatographic analyses of light hydrocarbons in planetary atmospheres 709(1995)291

Solution properties of amorphous co- and terpolymers of styrene as examined by inverse gas chromatography 715(1995)127

Thermodynamic consideration of the retention mechanism in a poly(perfluoroalkyl ether) gas chromatographic stationary phase used in packed columns 715(1995)299

Glycerol as a new dissolution medium for α -, β - and γ -cyclodextrins for preparing stereoselective stationary phases for gas-liquid chromatography 715(1995)309

Nickel(II) chelates of some tetradentate Schiff bases as stationary phases for gas chromatography 715(1995)366

Characterization of cyano-functionalized stationary gas chromatographic phases by linear solvation energy relationships 718(1995)357

Relative polarities of nine modified cyclodextrin commercial stationary phases in gas chromatographic capillaries 719(1996)375

Chemically bonded chelates as selective complexing sorbents for gas chromatography. IV. Silica surfaces modified with Co(II) and Ni(II) complexes 723(1996)313

Gas chromatographic properties of cyclic dienolic fatty acids formed in heated linseed oil 723(1996)349

Indications of the chemical structure of oxygen-containing constituents of volatile oils by capillary gas chromatography using one or two modified β - and α -cyclodextrin phases 724(1996)403

Plots of relative retention against solute boiling points may indicate host-guest interactions with modified cyclodextrin gas chromatographic phases 732(1996)408

Structure-retention correlations of chlorobenzenes as a method for the comparison of the behaviour of gas-liquid-solid and gas-liquid capillary columns of various polarities 734(1996)277

- Comparison of the behaviour of gas-liquid and gas-liquid-solid capillary columns through the determination of thermodynamic characteristics 742(1996)151
- Plots of relative retention against solute boiling point indicate extra solute interactions with a liquid crystal polysiloxane stationary phase 743(1996)341
- Gas chromatography of Titan's atmosphere 746(1996)63
- Comparison of two azobenzene liquid crystal stationary phases in open tubular column gas chromatography 746(1996)247
- Stationary phases, LC**
- Study of the packing behavior of axial compression columns for preparative chromatography 702(1995)27
- "Perfusion chromatography". The effects of intra-particle convective velocity and microsphere size on column performance 702(1995)45
- Effect of stationary phase on preparative protein separation in reversed-phase chromatography 702(1995)157
- NMR imaging of the chromatographic process. Deposition and removal of gadolinium ions on a reversed-phase liquid chromatographic column 704(1995)37
- Preparation and evaluation of magnesia-coated silica as column packing material for high-performance liquid chromatography 704(1995)45
- Investigations into the epimerisation of tipredane ethylsulphoxide diastereoisomers during chromatographic analysis on reversed-phase silica. I. Investigations into the reaction mechanism 705(1995)219
- Investigations into the epimerisation of tipredane ethylsulphoxide diastereoisomers during chromatographic analysis on reversed-phase silica. II. The involvement of metals in commercially available C₁₈ silicas 705(1995)229
- Selectivity of chemically bonded zwitterion-exchange stationary phases in ion chromatography 706(1995)59
- Macrocyclic-based column for the separation of inorganic cations by ion chromatography 706(1995)69
- Stationary phase for the determination of fluoride and other inorganic anions 706(1995)81
- Modified silica as a stationary phase for ion chromatography 706(1995)93
- Cation analysis on a new poly(butadiene-maleic acid)-based column 706(1995)99
- Towards an electrochemically modulated chromatographic stationary phase 707(1995)29
- Molecular imprinting of acetylated carbohydrate derivatives into methacrylic polymers 707(1995)199
- Capability of a polymeric C₃₀ stationary phase to resolve *cis-trans* carotenoid isomers in reversed-phase liquid chromatography 707(1995)205
- Preparation of cDNA-silica using reverse transcriptase and its DNA sequence determination 708(1995)13
- Molecularly imprinted polymers on silica: selective supports for high-performance ligand-exchange chromatography 708(1995)19
- Retention studies on mixed-mode columns in high-performance liquid chromatography 708(1995)31
- Study of radial compression high-performance liquid chromatographic columns for preparative chromatography 708(1995)41
- Study of the operating conditions of axial compression columns for preparative chromatography 709(1995)227
- Properties of immobilized-liposome-chromatographic supports for interaction analysis 711(1995)33
- Studies on the adsorption capacities of proteins with a tentacle-type ion exchanger and their relationship to the stoichiometric retention parameter Z_c 711(1995)43
- Interaction mechanisms between insulin and N-acetylneuraminic acid in affinity chromatography 711(1995)93
- Purification of recombinant human basic fibroblast growth factor: stability of selective sorbents under cleaning in place conditions 711(1995)129
- Purification of monoclonal antibodies on dextran-coated silica support grafted by thiophilic ligand 711(1995)151
- Uniform-sized polymer-based separation media prepared using vinyl methacrylate as a cross-linking agent. Possible powerful adsorbent for solid-phase extraction of halogenated organic solvents in an aqueous environment 711(1995)247
- Retention behaviour of polar compounds using porous graphitic carbon with water-rich mobile phases 712(1995)287
- High-performance liquid chromatography of C₆₀, C₇₀, and higher fullerenes on tetraphenylporphyrin-silica stationary phases using strong mobile phase solvents 715(1995)19
- Retention mechanisms of polycyclic aromatic nitrogen heterocyclics on bonded amino phases in normal-phase liquid chromatography 715(1995)31
- Separation of priority pollutant phenols on chemically modified poly(styrene-divinylbenzene) resins by high-performance liquid chromatography 715(1995)213

- Preparation of a hydrophobic porous membrane containing phenyl groups and its protein adsorption performance 718(1995)27
- Separation of planar organic contaminants by pyrenyl-silica high-performance liquid chromatography 718(1995)107
- Characterization of pore size distribution of packing materials used in perfusion chromatography using a network model 718(1995)239
- Application of a novel, plastic formed carbon as a precolumn packing material for the liquid chromatographic determination of acetylcholine and choline in biological samples 718(1995)267
- Consolidation of the packing material in chromatographic columns under dynamic axial compression. II. Consolidation and breakage of several packing materials 719(1996)275
- Activated silica supports for preparation of chromatographic sorbents. A comparative study of silicas containing attached epoxy, tosyloxy and halogen groups 719(1996)291
- Recent progress in carbohydrate separation by high-performance liquid chromatography based on hydrophilic interaction 720(1996)75
- High-performance liquid chromatographic separation of carbohydrates on graphitized carbon columns 720(1996)119
- Recent progress in carbohydrate separation by high-performance liquid chromatography based on size exclusion 720(1996)151
- Comparison of separation modes of high-performance liquid chromatography for the analysis of glycoprotein- and proteoglycan-derived oligosaccharides 720(1996)227
- Fractionation of glycoprotein-derived oligosaccharides by affinity chromatography using immobilized lectin columns 720(1996)251
- Performance of pH elution in high-performance affinity chromatography of proteins using non-porous silica 721(1996)31
- Studies of the interfacial properties of chemically bonded phases by sorption and liquid chromatography 722(1996)19
- Quantitative structure-retention relationships in the examination of the topography of the binding site of antihistamine drugs on α_1 -acid glycoprotein 722(1996)25
- Effect of silver-modified silica on retention and selectivity in normal-phase liquid chromatography 722(1996)81
- Multifunctional ion-exchange stationary phases for high-performance liquid chromatography 722(1996)87
- Chemically bonded phenylsilicone stationary phases for the liquid chromatographic separation of polycyclic aromatic hydrocarbons and cyclosiloxanes 722(1996)97
- Use of 3-(1,8-naphthalimido)propyl-modified silyl silica gel as a stationary phase for the high-performance liquid chromatographic separation of purine derivatives 722(1996)107
- Synthesis and characterization of polymer-coated mixed-functional stationary phases with several different hydrophobic groups for direct analysis of biological samples by liquid chromatography 722(1996)115
- Size-exclusion chromatography on polyhydroxymethacrylate gel with dimethylformamide as eluent 722(1996)123
- Influence of titania matrix on retention behaviour in reversed-phase liquid chromatography 722(1996)129
- Applied slalom chromatography. Improved DNA separation by the use of columns developed for reversed-phase chromatography 722(1996)135
- High-performance liquid chromatographic separation of phenols on a fluorocarbon-bonded silica gel column 722(1996)273
- Determination of the retention behaviour of some non-ionic surfactants on reversed-phase high-performance liquid chromatography supports by spectral mapping in combination with cluster analysis or non-linear mapping 722(1996)281
- Characterization of a novel stationary phase derived from a hydrophilic polystyrene-based resin for protein cation-exchange high-performance liquid chromatography 723(1996)1
- Modelling and analysis of the elution stage of "perfusion chromatography". Effects of intraparticle convective velocity and microsphere size on system performance 724(1996)13
- Reproducibility, accuracy, and correction of isotherm data measured by chromatography 724(1996)39
- In situ silylation of silica-based packings using supercritical fluid as reaction medium 724(1996)373
- Hydrophilic interaction chromatography on amino-silica phases complements reversed-phase high-performance liquid chromatography and capillary electrophoresis for peptide analysis 724(1996)378
- Retention mechanism in reversed-phase liquid chromatography: specific effects of propiophenyl and multifunctional (cyanopropyl-octadecyl) bonded silicas 725(1996)205
- Chromatography of bovine lactoserum on the immobilized metallized dye Drimarene Rubine R/K 5BL. Modulation of selectivity by metal exchange and application to purification of milk immunoglobulins 725(1996)237

- Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. I. Methodology and validation of the model 726(1996)1
- Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. II. Slow sorption rate on a microparticle packing 726(1996)25
- Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. III. Diffusion in the polymer matrix as the cause of slow sorption 726(1996)37
- Mechanistic model of retention in protein ion-exchange chromatography 726(1996)45
- Salt-induced immobilizations of DNA oligonucleotides on an epoxide-activated high-performance liquid chromatographic affinity support 726(1996)77
- Simultaneous analysis of intact and desulfated glucosinolates with a porous graphitized carbon column 727(1996)71
- Study of the flow development during the slurry packing of microcolumns for liquid chromatography 728(1996)33
- Use of principal component analysis for the study of the retention behaviour of anticancer drugs on a β -cyclodextrin polymer-coated silica column 728(1996)67
- Delayed adsorption on slowly accessible stationary phase surfaces in porous liquid chromatographic column packings 728(1996)97
- Controlled mixed-mode interaction chromatography on membrane adsorbents 728(1996)129
- Molecularly imprinted uniform-size polymer-based stationary phase for high-performance liquid chromatography 728(1996)139
- Synthesis of silica-based heparin-affinity adsorbents 728(1996)149
- Characterization of wide-pore reversed-phase columns for biopolymer separations. I. Single-parametric evaluation 728(1996)179
- Reversed-phase liquid chromatography on a microspherical carbon column at high temperature 728(1996)189
- New stationary phases for the high-performance liquid chromatographic separation of nucleosides and cyclic nucleotides 728(1996)201
- Retention of pyridinecarboxylic acids on monomeric and polymeric alkylamide phases 728(1996)213
- Effect of mobile phase additives on peptide retention in reversed-phase chromatography with pellicular and totally porous sorbents 728(1996)225
- Effect of buffers on silica-based column stability in reversed-phase high-performance liquid chromatography 728(1996)259
- Adaptation of high-performance liquid chromatographic methods to multiple spectral analyses 728(1996)351
- Temperature-induced changes in the bandwidth behaviour of proteins separated with cation-exchange adsorbents 729(1996)67
- Rapid separation of peptides and proteins on 2- μ m porous microspherical reversed-phase silica material 729(1996)81
- Preparative membrane adsorber chromatography for the isolation of cow milk components 729(1996)87
- High-performance liquid chromatography of peptides on a microspherical carbon column 729(1996)143
- High-performance liquid chromatographic separation of some 2- and 4-hydroxy derivatives of 2'-benzoylbenzoic acid on Florisil and silica gel columns 730(1996)195
- Study of physico-chemical properties of some packing materials. 731(1996)27
- Silica-bonded calixarenes in chromatography 731(1996)41
- Silica-bonded calixarenes in chromatography 731(1996)47
- Congo Red and Cu(II) carrying poly(ethylene glycol dimethacrylate-hydroxyethyl methacrylate) microbeads as specific sorbents. Albumin adsorption/desorption 731(1996)57
- Determination of cholecalciferol and related substances by calcium phosphate hydroxyapatite and calcium phosphate fluoroapatite high-performance liquid chromatography 731(1996)153
- Size-exclusion chromatography on soft packing material under axial compression 732(1996)17
- Swelling behaviour and kinetic performance of polyacrylate stationary phases for reversed-phase and normal-phase open-tubular liquid chromatography 732(1996)201
- Dynamically generated stationary liquid phase systems with silica and ternary mobile phases containing ethylene glycol and formamide 732(1996)231
- Influence of flow-rate on the chromatographic performance of agarose- and cellulose-based anion-exchange media 734(1996)137
- Hydrophobic interaction chromatography of *Chromobacterium viscosum* lipase on polyethylene glycol immobilized on Sepharose 734(1996)213
- Superporous agarose, a new material for chromatography 734(1996)231

- Thiophilic nature of divinylsulphone cross-linked agarose 734(1996)241
- Study of the physico-chemical properties of some packing materials 736(1996)21
- End-capping of octadecylsilylated silica gels by high-temperature silylation 737(1996)139
- Development of protamine-bonded phase for separation of saccharides in liquid chromatography 737(1996)149
- Effect of organic solvent modifier and nature of solute on the performance of bonded silica reversed-phase columns for the analysis of strongly basic compounds by high-performance liquid chromatography 738(1996)169
- Novel cation-exchange stationary phase for the separation of amines and of six common inorganic cations 739(1996)87
- Enhancing the anion separations on a polydivinylbenzene-based anion stationary phase 739(1996)99
- High-performance liquid chromatographic characterization of dissolved organic matter from low-level radioactive waste leachates 739(1996)281
- Ion-exclusion chromatography of ethanolamines on an anion-exchange resin by elution with polyols and sugars 739(1996)317
- Retention behavior of methylamines, ethylenediamine and N-methyl-substituted ethylenediamines on a cation-exchange resin having a polycarboxylic acid as the functional group 739(1996)327
- Comparison of an ordered mesoporous aluminosilicate, silica, alumina, titania and zirconia in normal-phase high-performance liquid chromatography 740(1996)1
- Study of ion chromatography with ion-exchange fibers as the stationary phase 740(1996)195
- Improved high-performance liquid chromatographic determination of pilocarpine and its degradation products in ophthalmic solutions 740(1996)289
- Analysis of quaternary ammonium drugs by thermospray liquid chromatography-mass spectrometry using a resin-based stationary phase 741(1996)75
- Consolidation of the packing material in chromatographic columns under dynamic axial compression 741(1996)165
- Consolidation of the packing material in chromatographic columns under dynamic axial compression IV. Mechanical properties of some packing materials 741(1996)175
- High-performance liquid chromatography and detection of polyethers and their mono(carboxy)alkyl and -arylalkyl substituted derivatives (Review) 742(1996)1
- Rapid ion chromatographic method for the quantitative determination of ligand leakage from ion-exchange media 742(1996)79
- Affinity chromatography of trypsin using chitosan as ligand support 742(1996)107
- Effects of structural and kinetic parameters on the performance of chromatographic columns packed with perfusive and purely diffusive adsorbent particles 743(1996)3
- Study of protein binding to a silica support with a polymeric cation-exchange coating 743(1996)15
- Lateral interaction between electrostatically adsorbed and covalently immobilized proteins on the surface of cation-exchange sorbents 743(1996)25
- Apparent pore size distributions of chromatography media 743(1996)33
- Studies on the expansion characteristics of fluidised beds with silica-based adsorbents used in protein purification 743(1996)57
- Characterisation of silica-based heparin-affinity adsorbents through column chromatography of plasma fractions containing thrombin 743(1996)145
- Influence of column type and chromatographic conditions on the ion-exchange chromatography of immunoglobulins 743(1996)171
- Perfusion chromatography - characterization of column packings for chromatography of proteins 743(1996)221
- Effect of the packing pressure on the performance of C₁₈ reversed-phase liquid chromatographic columns 743(1996)247
- Regulation of cellulose-based adsorbent granule morphology (Review) 746(1996)147
- Characterization of protein adsorption by composite silica-polyacrylamide gel anion exchangers 746(1996)169
- Characterization of protein adsorption by composite silica-polyacrylamide gel anion exchangers 746(1996)185
- Synthesis and chromatographic characterization of dextran-coated zirconia high-performance liquid chromatographic stationary phases 746(1996)199
- Stationary phases, LC, DNA-modified**
Development of DNA-immobilised chromatographic stationary phases for optical resolution and DNA-affinity comparison of metal complexes 718(1995)436
- Stationary phases, SFC**
Packed capillary column supercritical fluid chromatography using SE-54 polymer encapsulated silica 707(1995)303

In situ silylation of silica-based packings using supercritical fluid as reaction medium 724(1996)373

Stationary velocity field

Electroosmosis in capillary zone electrophoresis with non-uniform zeta potential 709(1995)51

Statistical analysis

Improved statistical analysis of ion chromatography data from acids for aluminum anodizing solutions 739(1996)163

Steam distillation–solvent extraction

Steam distillation–solvent extraction, a selective sample enrichment technique for the gas chromatographic–electron-capture detection of organochlorine compounds in milk powder and other milk products 712(1995)355

Enantioselective analysis of chiral polychlorinated biphenyls in sediment samples by multidimensional gas chromatography–electron-capture detection after steam distillation–solvent extraction and sulfur removal 723(1996)399

Steric immobilization

Properties of immobilized-liposome–chromatographic supports for interaction analysis 711(1995)33

Steric inversion

High-speed particle separation and steric inversion in thin flow field-flow fractionation channels 746(1996)137

Steric mass action model

Modeling non-linear elution of proteins in ion-exchange chromatography 702(1995)125

Ion-exchange displacement chromatography of proteins. Dendritic polymers as novel displacers 702(1995)143

Optimization of preparative ion-exchange chromatography of proteins: linear gradient separations 725(1996)295

Stoichiometric coefficients

Determination of stoichiometric coefficients and apparent formation constants for α - and β -CD complexes of terpenes using reversed-phase liquid chromatography 736(1996)1

Stoichiometric displacement parameter

Studies on the adsorption capacities of proteins with a tentacle-type ion exchanger and their relationship to the stoichiometric retention parameter Z_c 711(1995)43

Stoichiometric ion-exchange model

Retention mechanism of anions in micellar chromatography: Interpretation of retention data on the basis of an ion-exchange model 706(1995)37

Stop-flow procedure

Experimental study on the separation of silica gel supports by gravitational field-flow fractionation. II. Sample preparation, stop-flow procedure and overloading effect 715(1995)259

Streptococcus

Purification of preparative quantities of group B *Streptococcus* type III oligosaccharides 705(1995)363

Structural analysis

New stationary phases for the high-performance liquid chromatographic separation of nucleosides and cyclic nucleotides 728(1996)201

Isolation and identification of peptide conformers by reversed-phase high-performance liquid chromatography and NMR at low temperature 729(1996)155

Structural isomers

Separation of positional and structural isomers by cyclodextrin-mediated capillary zone electrophoresis 745(1996)9

Structure–retention relationships

Quantitative structure–retention relationships of acyclovir esters using immobilised albumin high-performance liquid chromatography and reversed-phase high-performance liquid chromatography 707(1995)367

Quantitative structure–retention relationships in the examination of the topography of the binding site of antihistamine drugs on α_1 -acid glycoprotein 722(1996)25

Quantitative structure–retention relationships (QSRR) of congeneric aromatics series studied on phenyl OV phases in gas chromatography 723(1996)77

Unified equation between Kováts indices on different stationary phases for select types of compounds 731(1996)187

Gas chromatographic study of the inclusion properties of calixarenes 732(1996)63

Structure–retention correlations of chlorobenzenes as a method for the comparison of the behaviour of gas–liquid–solid and gas–liquid capillary columns of various polarities 734(1996)277

Structure–retention–stability relationships

Conformational effects in reversed-phase high-performance liquid chromatography of polypeptides. I. Resolution of insulin variants 711(1995)61

Styrene–divinylbenzene sorbents

Gas–solid retention volumes of organic compounds on styrene–divinylbenzene and ethylvinylbenzene–divinylbenzene copolymer sorbent beads 732(1996)317

Sub-surface brines

Suppressed ion chromatographic analysis of anions in environmental waters containing high salt concentrations (Review) 733(1996)73

Suppressed ion chromatographic determination of lithium, sodium, ammonium and potassium concentrations in sub-surface brines 733(1996)93

Sumatriptan

Quantitation of the 5HT_{1D} agonists MK-462 and sumatriptan in plasma by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 726(1996)115

Supercritical fluid chromatography

Selected applications of the use of supercritical fluids in coupled systems 703(1995)467

Recent developments in supercritical fluid chromatography–mass spectrometry coupling 703(1995)479

Packed column supercritical fluid chromatography–mass spectrometry with particle beam interface aided with particle forming solvent 703(1995)489

Performance characteristics of a real-time direct deposition supercritical fluid chromatography–Fourier transform infrared spectrophotometry system 703(1995)503.

Packed capillary column supercritical fluid chromatography using SE-54 polymer encapsulated silica 707(1995)303

Supercritical fluid chromatography of free resin acids on an ODS-silica gel column 709(1995)345

Determination of cholesterol in milk fat by supercritical fluid chromatography 715(1995)333

Thermodynamic background of selectivity shifts in temperature-programmed, constant-density supercritical fluid chromatography 718(1995)147

Supercritical fluid chromatography of carbohydrates 720(1996)61

Supercritical fluid chromatography of paclitaxel 721(1996)315

Two-stage resolution of mixtures by supercritical fluid chromatography 722(1996)317

In situ silylation of silica-based packings using supercritical fluid as reaction medium 724(1996)373

Feasibility of supercritical fluid chromatography–chemiluminescent nitrogen detection with open tubular columns 734(1996)303

Stability and purity of low-polarity adsorbents for coupled supercritical fluid extraction–supercritical fluid chromatography–flame ionization detection 734(1996)311

On-line coupled supercritical fluid extraction and chromatography for the determination of thiolcarbamate herbicides in soil matrix 750(1996)175

Investigation of parameters affecting the on-line combination of supercritical fluid extraction with capillary gas chromatography 750(1996)215

Supercritical fluid chromatography–mass spectrometry

see also Special issue index

Identification of diflubenzuron by packed-capillary supercritical fluid chromatography–mass spectrometry with electron-capture negative ionization 712(1995)95

Identification of the lipids and the ant attractant 1,2-dioleoylglycerol in the arils of *Commiphora guillaumini* Perr. (Burseraceae) by supercritical fluid chromatography–atmospheric pressure chemical ionisation mass spectrometry 727(1996)139

Capillary supercritical fluid chromatography combined with atmospheric pressure chemical ionisation mass spectrometry for the investigation of photoproduct formation in the sunscreen absorber 2-ethylhexyl-*p*-methoxycinnamate 732(1996)101

Supercritical fluid extraction

Selected applications of the use of supercritical fluids in coupled systems 703(1995)467

Applications of supercritical fluid extraction in multidimensional systems 703(1995)523

Supercritical fluid extraction coupled directly with Fourier transform infrared spectrometry 703(1995)537

Supercritical fluid extraction in environmental analysis 703(1995)549

Ion-pair–supercritical fluid extraction of clenbuterol from food samples 711(1995)269

Determination of pentachlorophenol in leather using supercritical fluid extraction with in situ derivatization 718(1995)131

Application of experimental design approach to the optimization of supercritical fluid extraction of polychlorinated biphenyls and polycyclic aromatic hydrocarbons 719(1996)77

Optimization of supercritical fluid extraction of phenol and cresols in soil samples 723(1996)123

Direct supercritical fluid extraction of water-based matrices 733(1996)35

Stability and purity of low-polarity adsorbents for coupled supercritical fluid extraction–supercritical fluid chromatography–flame ionization detection 734(1996)311

Variable flow control and collection device for use with supercritical fluids 738(1996)241

On-line coupled supercritical fluid extraction and chromatography for the determination of thiolcarbamate herbicides in soil matrix 750(1996)175

Supercritical fluids

Counter-current chromatography using supercritical fluid carbon dioxide as mobile phase 724(1996)91

Supersonic free jet nozzle

Surface ionization detector with a supersonic free jet for gas chromatography 750(1996)335

Suppressed conductivity detector

Capillary electrophoresis of inorganic anions and organic acids using suppressed conductivity detection. Strategies for selectivity control 717(1995)371

Suppressed ion chromatography

Suppressed ion chromatographic analysis of anions in environmental waters containing high salt concentrations (Review) 733(1996)73

Suppressed ion chromatographic determination of lithium, sodium, ammonium and potassium concentrations in sub-surface brines 733(1996)93

Suppressor

Colour-indication suppressor for anion chromatography 706(1995)55

Suppressor devices

Studies on system performance and sensitivity in ion chromatography 706(1995)3

Supramolecular effects

Supramolecular effects in the chiral discrimination of *meta*-methylbenzoyl cellulose in high-performance liquid chromatography 718(1995)257

Surface adsorption density distribution

Determination of adsorption characteristics of the nutrient orthophosphate to natural colloids by sedimentation field-flow fractionation 733(1996)105

Surface area

Properties of immobilized-liposome-chromatographic supports for interaction analysis 711(1995)33

Surface characterization

Characterisation of inner surface and adsorption phenomena in fused-silica capillary electrophoresis capillaries 744(1996)93

Surface ionization detection

Surface ionization detector with a supersonic free jet for gas chromatography 750(1996)335

Surfactants

see also Compound Index

Chemical selectivity in micellar electrokinetic chromatography 738(1996)265

High-performance liquid chromatography and detection of polyethers and their mono(carboxy)alkyl and -arylalkyl substituted derivatives (Review) 742(1996)1

Suspended solids

Optimization of a drying method for filtered suspended solids from natural waters for supercritical fluid extraction analysis of hydrophobic organic compounds 738(1996)253

Swelling, stationary phase

Thermodynamic background of selectivity shifts in temperature-programmed, constant-density supercritical fluid chromatography 718(1995)147

Swelling behaviour

Swelling behaviour and kinetic performance of polyacrylate stationary phases for reversed-phase and normal-phase open-tubular liquid chromatography 732(1996)201

Swimming pools

Environmental and biological monitoring of chloroform in indoor swimming pools 710(1995)181

System peaks

Study on how mobile phase buffer composition effects the retention behavior of the system peak in non-suppressed ion chromatography 708(1995)195

Profiles of large-size system peaks and vacancy bands in liquid chromatography 734(1996)63

Profiles of large-size system peaks and vacancy bands in liquid chromatography. II. Comparison of experimental and calculated profiles 734(1996)75

Apparent baseline irregularities for neutral markers in capillary zone electrophoresis with electroosmotic flow 734(1996)351

Systemic lupus erythematosus

Immuno-capillary electrophoresis for the characterization of a monoclonal antibody against DNA 744(1996)285

T***Tabebuia avellanedae***

High-performance liquid chromatographic separation of some naturally occurring naphthoquinones and anthraquinones 723(1996)206

Tailing

Calculation of the composition of sample zones in capillary zone electrophoresis 741(1996)265

Tandem mass spectrometry

Enantiospecific determination of nimodipine in human plasma by liquid chromatography–tandem mass spectrometry 712(1995)45

Determination of an endothelin receptor antagonist in human plasma by narrow-bore liquid chromatography and ionspray tandem mass spectrometry 712(1995)75

Mass spectral analyses of microcystins from toxic cyanobacteria using on-line chromatographic and electrophoretic separations 712(1995)253

Determination of chlorophenols in drinking water with high resolution gas chromatography–tandem mass spectrometry 743(1996)283

Taxus baccata

Analysis of taxol, 10-deacetylbaccatin III and related compounds in *Taxus baccata* 712(1995)303

Determination of taxol in *Taxus* species grown in Hungary by high-performance liquid chromatography–diode array detection 750(1996)253

Tea

Simultaneous analysis of individual catechins and caffeine in green tea 749(1996)295

Tear fluid

Determination of anions in human and animal tear fluid and blood serum by ion chromatography 706(1995)183

Temperature effects

Development of an analytical reversed-phase high-performance liquid chromatography assay for transforming growth factor β 709(1995)249

Capillary zone electrophoresis at subzero temperatures. I. Separation of the *cis* and *trans* conformers of small peptides 716(1995)167

Critical retention behaviour of polymers 727(1996)13

Reversed-phase liquid chromatography on a microspherical carbon column at high temperature 728(1996)189

Temperature of the eluent: a neglected tool in high-performance liquid chromatography? 728(1996)299

Influence of temperature on the retention behaviour of proteins in cation-exchange chromatography 729(1996)49

Temperature-induced changes in the bandwidth behaviour of proteins separated with cation-exchange adsorbents 729(1996)67

Reversed-phase chiral ion-pair chromatography at a column temperature below 0°C using three generations of Hypercarb as solid-phase 732(1996)245

Homologue separation of linear alcohol ethoxylates by high-performance liquid chromatography 732(1996)299

Separation of metallothionein isoforms with capillary zone electrophoresis using an uncoated capillary column. Effects of pH, temperature, voltage, buffer concentration and buffer composition 734(1996)391

Influence of temperature on the enantioseparation of rolipram and structurally related racemates on Chiracel-OD 737(1996)333

Temperature-programmed injector

Trace analysis of explosives in water by gas chromatography–mass spectrometry with a temperature-programmed injector 742(1996)205

Temperature-programmed retention indices

Simple calibrated merging of gas chromatography capillary column temperature-programmed retention-index compilations 724(1996)229

Calibrated salvage of gas chromatography capillary column retention indices 742(1996)131

Temperature programming

Optimization of temperature-programmed gas chromatographic separations. I. Prediction of retention times and peak widths from retention indices 718(1995)339

Extrapolating programmed gas chromatographic data from one set of conditions to another 746(1996)282

Temperature-swing chromatography

Amino acid separation by preparative temperature-swing chromatography with flow reversal 732(1996)1

Temporal sample stacking

Some practical aspects of utilizing the on-line combination of isotachopheresis and capillary zone electrophoresis 716(1995)35

Tentacle-type ion exchanger

Studies on the adsorption capacities of proteins with a tentacle-type ion exchanger and their relationship to the stoichiometric retention parameter Z_c 711(1995)43

***Thalictrum simplex* L**

Reversed-phase high-performance liquid chromatographic separation of epimeric alkaloid N-oxides from *Thalictrum simplex* L 730(1996)63

Therapeutic drug monitoring

Determination of fluconazole in human plasma by micellar electrokinetic capillary chromatography with detection at 190 nm 745(1996)165

Thermal conductivity detector

Assessment of some possibilities for improving the performance of gas chromatographic thermal conductivity detectors with hot-wire sensitive elements 715(1995)287

Thermal desorption

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Coupling of thermal desorption in modified closeable sampling columns with wide-bore capillary gas chromatography and mass spectrometric detection 750(1996)239

Thermal diffusion

Determination of the compositional heterogeneity of polydisperse polymer samples by the coupling of size-exclusion chromatography and thermal field-flow fractionation 703(1995)245

Thermal field-flow fractionation

Determination of the compositional heterogeneity of polydisperse polymer samples by the coupling of size-exclusion chromatography and thermal field-flow fractionation 703(1995)245

Influence of bulk and surface composition on the retention of colloidal particles in thermal field-flow fractionation 715(1995)117

Thermal lens spectrometry

On-line thermal lens spectrometric detection of Cr(III) and Cr(VI) after separation by ion chromatography 706(1995)121

Application of thermal lens spectrometric detection to the determination of heavy metals by ion chromatography 739(1996)111

Thermodynamic parameters

Repetitive liquid injection system for inverse gas chromatography 715(1995)279

Thermodynamic consideration of the retention mechanism in a poly(perfluoroalkyl ether) gas chromatographic stationary phase used in packed columns 715(1995)299

Thermodynamic background of selectivity shifts in temperature-programmed, constant-density supercritical fluid chromatography 718(1995)147

Optimization of temperature-programmed gas chromatographic separations. I. Prediction of retention times and peak widths from retention indices 718(1995)339

Complete chromatographic separation of aquachromium(III)-isothiocyanato successive complexes including geometric isomers using cross-linked dextran and poly(vinyl alcohol) gel columns 719(1996)365

Performance of pH elution in high-performance affinity chromatography of proteins using non-porous silica 721(1996)31

Influence of prediction method of the second virial coefficient on inverse gas chromatographic parameters 721(1995)139

Optimum liquid and solid-phase velocity for minimum shock layer thickness in counter-current chromatography 721(1996)187

Retention index calculation using Kováts constant model for linear temperature-programmed gas chromatography 721(1996)279

Three-dimensional molecular simulation of chromatographic separations 722(1996)3

Revisionist look at solvophobic driving forces in reversed-phase liquid chromatography. III. Comparison of the behavior of nonpolar and polar solutes 724(1996)1

Modelling and analysis of the elution stage of "perfusion chromatography". Effects of intraparticle convective velocity and microsphere size on system performance 724(1996)13

Role of binding capacity versus binding strength in the separation of chiral compounds on protein-based high-performance liquid chromatography columns 725(1996)273

Improved method for computing temperature programmed retention indices from isothermal data 725(1996)343

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. I. Methodology and validation of the model 726(1996)1

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. II. Slow sorption rate on a microparticle packing 726(1996)25

Intra-particle sorption rate and liquid chromatographic bandbroadening in porous polymer packings. III. Diffusion in the polymer matrix as the cause of slow sorption 726(1996)37

Gas chromatographic determination of liquid vapour pressure and heat of vaporization of tetrachlorobenzyltoluenes 727(1996)265

Influence of the concentration dependence of the mass transfer properties on the chromatographic band profiles 728(1996)15

Retention model for singly and doubly charged analytes in ion-interaction chromatography 728(1996)55

Thermodynamic parameters of the formation of a complex between cyclodextrins and steroid hormones 728(1996)89

Delayed adsorption on slowly accessible stationary phase surfaces in porous liquid chromatographic column packings 728(1996)97

Effect of mobile phase additives on peptide retention in reversed-phase chromatography with pellicular and totally porous sorbents 728(1996)225

Autocatalytic reactions in a liquid chromatographic reactor 728(1996)401

Modeling of the influence of the experimental conditions on the separation of the components of a binary mixture in isocratic overloaded elution preparative chromatography 734(1996)49

Influence of temperature on the enantioseparation of rolipram and structurally related racemates on Chiracel-OD 737(1996)333

Solute retention in gas and supercritical fluid chromatography versus pairwise interactions within the system: a numerical treatment in perturbations of molecular parameters 738(1996)101

Solubility and polarity parameters for pyridinecarboxamides and their complexes with copper(II) as determined by inverse gas chromatography 740(1996)253

Peak tailing and mass transfer kinetics in linear chromatography 741(1996)1

Ion-pair adsorption chromatography for process purposes 741(1996)185

Thermodynamic potential

Comparison of the behaviour of gas-liquid and gas-liquid-solid capillary columns through the determination of thermodynamic characteristics 742(1996)151

Thermodynamic prediction model

Derivation of solubility parameters of chlorinated dibenzofurans and dibenzo[*p*]dioxins from gas chromatographic retention parameters via SOFA 715(1995)267

Thermophysical parameters

All-metal collection system for preparative-scale gas chromatography. Purification of low-boiling-point compounds 702(1995)243

Thermospray ionization

Effect of the eluent pH on the thermospray molecular ion intensity of nucleosides 734(1996)271

Thermospray ion source

Performance of an electrospray-interfaced thermospray ion source in hyphenated techniques 712(1995)211

Thermospray mass spectrometry

Analysis of quaternary ammonium drugs by thermospray liquid chromatography-mass spectrometry using a resin-based stationary phase 741(1996)75

Thermospray-type interface, in-source

Development of an "in-source" thermospray-type interface for on-line capillary liquid chromatography-mass spectrometry 705(1995)205

Thin-layer plates

Validation of quantitative chromatographic analysis on laboratory-prepared thin layers 704(1995)173

Thiol pegylation

Thiol pegylation facilitates purification of chymopapain leading to diffraction studies at 1.4 Å resolution 749(1996)69

Thiophilic adsorption

Purification of monoclonal antibodies on dextran-coated silica support grafted by thiophilic ligand 711(1995)151

Thiophilic interactions

Thiophilic nature of divinylsulphone cross-linked agarose 734(1996)241

Three-dimensional mapping

Three-dimensional mapping of N-linked oligosaccharides using anion-exchange, hydrophobic and hydrophilic interaction modes of high-performance liquid chromatography 720(1996)217

Time-resolved luminescence detection

Simultaneous high-performance liquid chromatographic determination of ochratoxin A and citrinin in cheese by time-resolved luminescence using terbium 727(1996)185

Time-resolved photon-counting fluorimetry

Time-resolved photon-counting fluorimetry with a semiconductor laser for capillary electrophoresis 727(1996)330

Titan, atmosphere

Gas chromatography of Titan's atmosphere. VI. Analysis of low-molecular-mass hydrocarbons and nitriles with BPX5 capillary columns 708(1995)283

Gas chromatography of Titan's atmosphere 746(1996)63

Titania

Influence of titania matrix on retention behaviour in reversed-phase liquid chromatography 722(1996)129

Tobacco

Evaluation of micellar electrokinetic capillary chromatography for the analysis of selected tobacco alkaloids 746(1996)131

Tobacco smoke

Selective determination of volatile N-nitrosamines by derivatization with diethyl chlorothiophosphate and gas chromatography with flame photometric detection 723(1996)93

Topological analysis

Quantitative structure-retention relationships (QSRR) of congeneric aromatics series studied on phenyl OV phases in gas chromatography 723(1996)77

Topological indices

Using topological indices in the prediction of gas chromatographic retention indices of linear alkylbenzene isomers 719(1996)462

Structure-retention relationships of steroid hormones in reversed-phase liquid chromatography and micellar electrokinetic capillary chromatography 728(1996)83

Trace analysis

Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography 706(1995)249

Matrix-elimination ion chromatography with post-column reaction detection for the determination of iodide in saline waters 706(1995)271

Automated gas chromatographic analysis of volatile organic compounds in air 710(1995)61

Analyte preconcentration procedure based on parallel-current open-tubular liquid chromatography 728(1996)311

Quantitative trace analysis of surfactant mixtures by reversed-phase high-performance liquid chromatography with refractometric detection 730(1996)209

Trace enrichment

Trace enrichment methods for the determination of organic pollutants in ambient air 710(1995)3

Selective trace enrichment on immunosorbents for the multiresidue analysis of phenylurea and triazine pesticides 725(1996)107

Development of a semi-automated high-performance liquid chromatographic–diode array detection system for screening pesticides at trace levels in aquatic systems of the Axios River basin 726(1996)99

On-line liquid chromatographic trace enrichment and high-performance liquid chromatographic determination of diquat, paraquat and difenzoquat in water 728(1996)325

Simultaneous analysis of some transition metals at ultra-trace level by ion-exchange chromatography with on-line preconcentration 739(1996)119

Trace-level anions/cations

Determination of trace level ions by high-volume direct-injection ion chromatography 739(1996)71

Transesterification

Gel permeation chromatographic method for monitoring the transesterification reaction in a two-step chemoenzymatic synthesis of urethane oil based on vegetable oils 718(1995)299

Transfer functions

Liquid chromatographic process identification using pulse testing techniques. Applications to column standardization and scale-up 718(1995)1

Transfer techniques, LC–GC

Development of the transfer techniques for on-line high-performance liquid chromatography–capillary gas chromatography 703(1995)265

Trapping

Continuous micropreparative trapping in carrier ampholyte-free isoelectric focusing 709(1995)39

Trial proficiency test

Identification of compounds relevant to the chemical weapons convention using selective gas chromatography detectors, gas chromatography–mass spectrometry and gas chromatography–Fourier transform infrared spectroscopy in an international trial proficiency test 742(1996)191

Tritium labelling

Pre-column derivatization for chromatographic and electrophoretic analyses of carbohydrates 720(1996)173

Tryptic maps

Identification of a new genetic variant of bovine β -casein using reversed-phase high-performance liquid chromatography and mass spectrometric analysis 711(1995)141

Turmeric

Characterization of powdered turmeric by liquid chromatography–mass spectrometry and gas chromatography–mass spectrometry 740(1996)51

Two-dimensional gas chromatography

Two-dimensional gas chromatography: principles, instrumentation, methods 703(1995)309

Two-dimensional planar chromatography

Multidimensionality in planar chromatography 703(1995)573

Two-dimensional supercritical fluid chromatography

Two-stage resolution of mixtures by supercritical fluid chromatography 722(1996)317

Tyrosine-modified electrode

Study of a new solid carbon paste tyrosinase-modified amperometric biosensor for the determination of catecholamines by high-performance liquid chromatography 727(1996)47

U

Unified chromatography

Principles and applications of unified chromatography 703(1995)17

Urea complexation

Enrichment of chlorinated fatty acids in fish lipids prior to analysis by capillary gas chromatography with electrolytic conductivity detection and mass spectrometry 731(1996)225

UV photolysis

Application of ion chromatography to the analysis of high-purity CdTe 739(1996)131

V

Vacancy bands

Profiles of large-size system peaks and vacancy bands in liquid chromatography 734(1996)63

Profiles of large-size system peaks and vacancy bands in liquid chromatography. II. Comparison of experimental and calculated profiles 734(1996)75

Vaccines

Reversed-phase high-performance liquid chromatographic study of thimerosal stability in Cuban recombinant hepatitis B vaccine 729(1996)219

Validation

Rational experimental design for bioanalytical methods validation. Illustration using an assay method for total captopril in plasma 730(1996)381

Development and validation of a combined potency assay and enantiomeric purity method for a chiral pharmaceutical compound using capillary electrophoresis 745(1996)45

Valve injectors

Analyte adsorption in liquid chromatography valve injectors for samples in non-eluting solvents 726(1996)67

Vanilla flavourings

Micellar electrokinetic chromatography as a screening method for the analysis of vanilla flavourings and vanilla extracts 736(1996)321

Vaporiser-precursor solvent split

Vaporising systems for large volume injection or on-line transfer into gas chromatography: classification, critical remarks and suggestions (Review) 750(1996)11

Vapor pressure

Gas chromatographic determination of vapour pressures of pheromone-like compounds. III. Aldehydes 719(1996)391

Gas chromatographic determination of liquid vapour pressure and heat of vaporization of tetrachlorobenzyltoluenes 727(1996)265

New method for estimating vapor pressure by the use of gas chromatography 749(1996)123

Vegetable oils

Determination of diacylglycerol isomers in vegetable oils by solid-phase extraction followed by gas chromatography on a polar phase 721(1996)305

Vegetables

Determination of nitrate and nitrite in vegetables by capillary electrophoresis with indirect detection 706(1995)479

Identification of fatty acids in edible wild plants by gas chromatography 719(1996)229

Determination of imidacloprid in vegetables by high-performance liquid chromatography with diode-array detection 721(1996)97

Determination of monocyclic aromatic hydrocarbons in fruit and vegetables by gas chromatography-mass spectrometry 734(1996)297

Verbascum

Separation of *E-Z* isomeric macrocyclic spermine alkaloids of *Verbascum pseudonobile* and *Verbascum phoeniceum* and of their derivatives using thin-layer chromatography 724(1996)416

Videodensitometry

Quantitative thin layer chromatography on cellulose 746(1996)261

Virial coefficients

Influence of prediction method of the second virial coefficient on inverse gas chromatographic parameters 721(1995)139

Viscous heat dissipation

Temperature of the eluent: a neglected tool in high-performance liquid chromatography? 728(1996)299

Voltage pre-conditioning

Voltage pre-conditioning technique for optimisation of migration-time reproducibility in capillary electrophoresis 718(1995)444

Vulcanisation accelerators

Reversed-phase high-performance liquid chromatographic method for the quantitative determination of alkylbis(2-benzothiazolylsulfen)amides 710(1995)351

W**Warfare agents**

Atomic emission detection for the quantitation of trimethylsilyl derivatives of chemical-warfare-agent related compounds in environmental samples 709(1995)333

Separation of sulfur containing chemical warfare related compounds in aqueous samples by micellar electrokinetic chromatography 711(1995)347

Derivatization of 10-chloro-5,10-dihydrophenarsazine (Adamsite) for gas chromatographic analysis 719(1996)401

Capillary gas chromatographic analysis of nerve agents using large volume injections 723(1996)210

Capillary electrophoresis analysis of chemical warfare agent breakdown products 741(1996)279

Identification of compounds relevant to the chemical weapons convention using selective gas chromatography detectors, gas chromatography-mass spectrometry and gas chromatography-Fourier transform infrared spectroscopy in an international trial proficiency test 742(1996)191

Waste gases

Monitoring polycyclic aromatic hydrocarbons in waste gases 710(1995)129

Waste leachates

Determination of chloride in the leachates of stabilised waste by ion chromatography and by a volumetric method. Analysis and comparison 706(1995)321

Water analysis

see also Special issue index

Gas chromatographic determination of 5-chloro-2-(2,4-dichlorophenoxy)-phenol in the waste water of a slaughterhouse 705(1995)313

Precision of ion chromatographic analyses compared with that of other analytical techniques through intercomparison exercises 706(1995)13

Detection of iodide in geologic materials by high-performance liquid chromatography 706(1995)215

Ion chromatographic determination of major ions in fog samples 706(1995)241

Oxidative decomposition of organic water pollutants with UV-activated hydrogen peroxide. Determination of anionic products by ion chromatography 706(1995)253

Simultaneous determination of small organic and inorganic anions in environmental water samples by ion-exchange chromatography 706(1995)259

Ion chromatography of organic-rich natural waters from peatlands. III. Improvements for measuring anions and cations 706(1995)281

Ion chromatography of organic-rich natural waters from peatlands. IV. Dissolved free sulfide and acid-volatile sulfur 706(1995)287

Determination of anions in oilfield waters by ion chromatography 706(1995)301

Multi-residue pesticide analysis in environmental water samples using solid-phase extraction discs and gas chromatography with flame thermionic and mass-selective detection 707(1995)283

Determination of permethrin and cyfluthrin in water and sediment by gas chromatography-mass spectrometry operated in the negative chemical ionization mode 707(1995)293

Simultaneous determination of tebufenozide and five of its intact metabolites from forestry matrices by high-performance liquid chromatography 708(1995)71

Determination of trace elements in sea water by ion chromatography-inductively coupled plasma mass spectrometry 709(1995)275

Determination of organophosphorus pesticides in environmental samples by capillary gas chromatography-mass spectrometry 709(1995)319

Selective determination of aromatic amines in water samples by capillary zone electrophoresis and solid-phase extraction 709(1995)361

- Adsorbents for the removal of humic acid from surface water based on modified porous zirconia and silica 711(1995)223
- Determination of organophosphorus pesticides and their transformation products in river waters by automated on-line solid-phase extraction followed by thermospray liquid chromatography–mass spectrometry 712(1995)103
- Trace determination of herbicides in estuarine waters by liquid chromatography–high-flow pneumatically assisted electrospray mass spectrometry 712(1995)113
- Polar organic pollutants in the Elbe river. Liquid chromatographic–mass spectrometric and flow-injection analysis–mass spectrometric analyses demonstrating changes in quality and concentration during the unification process in Germany 712(1995)123
- Determination of the petroleum tracers nitrate and thiocyanate in subterranean waters by capillary ion electrophoresis 715(1995)376
- Capillary electrophoretic analysis of the sodium salt of naphthalenesulfonic acid, formaldehyde polymer in waste water using a polyethylene glycol-coated capillary 717(1995)363
- High-performance liquid chromatographic separation and detection of phenols using 2-(9-anthrylethyl) chloroformate as a fluorophoric derivatizing reagent 718(1995)45
- Separation of phenylurea pesticides by ion-interaction reversed-phase high-performance liquid chromatography. Diuron determination in lagoon water 718(1995)81
- Automated solid-phase extraction coupled to gas chromatography with electron-capture detection: a combination of extraction and clean-up of pyrethroids in the analysis of surface water 719(1996)59
- UV detection of triazine herbicides and their hydroxylated and dealkylated degradation products in well water 721(1996)107
- Determination of dimethylamine in groundwater by liquid chromatography and precolumn derivatization with 9-fluorenylmethylchloroformate 721(1996)231
- Application of ion interaction chromatography to the determination of metal ions in natural water samples 721(1996)269
- Determination of chlorophenols at the sub-ppb level in tap water using derivatization, solid-phase extraction and gas chromatography with plasma atomic emission detection 721(1996)297
- Determining the characteristics of water pollutants by neural sensors and pattern recognition methods 722(1996)233
- Determination of short-chain aliphatic, oxo- and hydroxy- acids in drinking water at low microgram per liter concentrations 723(1996)27
- Prediction from liquid chromatographic data of obligatory backflush desorption from solid-phase extraction cartridges packed with porous graphitic carbon 725(1996)57
- Analysis of microcontaminants in aqueous samples by fully automated on-line solid-phase extraction–gas chromatography–mass selective detection 725(1996)67
- Improvements in the determination of organophosphorus pesticides in ground- and wastewater samples from interlaboratory studies by automated on-line liquid–solid extraction followed by liquid chromatography–diode array detection 725(1996)85
- Selective trace enrichment on immunosorbents for the multiresidue analysis of phenylurea and triazine pesticides 725(1996)107
- Determination of herbicides in surface water by means of a supported liquid membrane technique and high-performance liquid chromatography 725(1996)121
- Solid-phase microextraction of the herbicide metolachlor in runoff and tile-drainage water samples 725(1996)129
- H-Point standard additions method for resolution of overlapping chromatographic peaks with diode array detection by using area measurements 726(1996)67
- Qualitative analysis of contaminated environmental extracts by multidimensional gas chromatography with infrared and mass spectral detection (MDGC–IR–MS) 726(1996)167
- Trace analysis of the antineoplastics ifosfamide and cyclophosphamide in sewage water by two-step solid-phase extraction and gas chromatography–mass spectrometry 726(1996)179
- Simple and rapid determination of the herbicides glyphosate and glufosinate in river water, soil and carrot samples by gas chromatography with flame photometric detection 726(1996)253
- Determination of cypermethrin, fenvalerate and *cis*- and *trans*-permethrin in soil and groundwater by high-performance liquid chromatography using partial least-squares regression 727(1996)39
- Optimization study for the speciation analysis of organotin and organogermanium compounds by on-column capillary gas chromatography with flame photometric detection using quartz surface-induced luminescence 727(1996)119
- Influence of organic matter and surfactants on solid-phase extraction of diquat, paraquat and difenzoquat from waters 727(1996)245
- Ion-pairing mechanism in the solid-phase extraction and reversed-phase high-performance liquid chromatographic determination of acidic herbicides in water 728(1996)319

- High-performance liquid chromatographic analysis with electrochemical detection for residues of explosives in water samples around a former ammunition plant 730(1996)161
- Determination of polycyclic aromatic hydrocarbons in water samples using high-performance liquid chromatography with amperometric detection 730(1996)169
- Application of multivariate self-modeling curve resolution to the quantitation of trace levels of organophosphorus pesticides in natural waters from interlaboratory studies 730(1996)177
- Pesticide analysis by micellar electrokinetic capillary chromatography 730(1996)337
- Integrated system for on-line gas and liquid chromatography with a single mass spectrometric detector for the automated analysis of environmental samples 730(1996)353
- Determination of phenols in environmental waters using liquid chromatography with electrochemical detection 731(1996)95
- On-line preconcentration, cleanup and high-performance liquid chromatographic determination of chlorophenoxy acid herbicides in water 731(1996)115
- Non-suppressed ion chromatography of inorganic anions, magnesium and calcium ions using a pyromellitate eluent and its application in evaluating environmental water quality 731(1996)179
- Detectability enhancement by the use of large-volume injections in gas chromatography–cryotrapping–Fourier transform infrared spectrometry 732(1996)75
- Analysis of 23 polynuclear aromatic hydrocarbons from natural water at the sub-ng/l level using solid-phase disk extraction and mass-selective detection 732(1996)85
- Chromatographic and related spot tests for the detection of water pollutants 733(1996)5
- Direct supercritical fluid extraction of water-based matrices 733(1996)35
- Evaluation of two new examples of graphitized carbon blacks for use in solid-phase extraction cartridges 733(1996)41
- Determination of Cs-137 in environmental water by ion-exchange chromatography (Review) 733(1996)57
- Suppressed ion chromatographic analysis of anions in environmental waters containing high salt concentrations (Review) 733(1996)73
- Suppressed ion chromatographic determination of lithium, sodium, ammonium and potassium concentrations in sub-surface brines 733(1996)93
- Analysis of anions in drinking water by capillary ion electrophoresis 733(1996)101
- Determination of adsorption characteristics of the nutrient orthophosphate to natural colloids by sedimentation field-flow fractionation 733(1996)105
- Environmental analysis of volatile organic compounds in water and sediment by gas chromatography 733(1996)119
- Solid-phase microextraction coupled to gas chromatography: a new method for the analysis of organics in water 733(1996)143
- Characterization of organic micropollutants in the River Cinca (Spain) by using granular activated carbon and liquid–liquid extraction 733(1996)159
- Occurrence and determination of organic pollutants in tap and surface waters of the Gdańsk district 733(1996)171
- Chromatographic tools for analyzing and tracking non-ionic surfactants in the aquatic environment 733(1996)185
- Determination of surfactants in surface water by solid-phase extraction, liquid chromatography and liquid chromatography–mass spectrometry 733(1996)207
- Extraction methodology and chromatography for the determination of residual pesticides in water 733(1996)217
- Comparison of gas and liquid chromatography for analysing polar pesticides in water samples (Review) 733(1996)235
- Pesticide analysis by high-performance liquid chromatography using the direct injection method 733(1996)259
- Disks versus columns in the solid-phase extraction of pesticides from water 733(1996)267
- Influence of the solid-phase extraction process on calibration and performance parameters for the determination of pesticide residues in water by gas chromatography 733(1996)275
- Determination of ten carbamate pesticides in aquatic and sediment samples by liquid chromatography–ionspray and thermospray mass spectrometry 733(1996)283
- Determination of triazine herbicides in environmental samples 733(1996)295
- Monitoring of herbicide pollution in water by capillary electrophoresis 733(1996)337
- Determination of triazine herbicides in water by micellar electrokinetic capillary chromatography 733(1996)349
- Gas chromatographic determination of acid herbicides in surface water samples with electron-capture detection and mass spectrometric confirmation 733(1996)361

- Comparison of different sorbent materials for on-line liquid–solid extraction followed by liquid chromatographic determination of priority phenolic compounds in environmental waters 733(1996)371
- Trace determination of phenols in natural waters. Extraction by a new graphitized carbon black cartridge followed by liquid chromatography and re-analysis after phenol derivatization 733(1996)383
- Determination of pentachlorophenol in water samples by capillary zone electrophoresis 733(1996)395
- Analysis of structural isomers of polychlorinated phenols in water by liquid-nitrogen-trapping gas chromatography–Fourier transform infrared spectroscopy 733(1996)405
- Methods of isolation and determination of volatile organohalogen compounds in natural and treated waters 733(1996)417
- Current developments in the analysis of water pollution by polychlorinated biphenyls 733(1996)449
- Methods of analysis of polar aromatic sulfonates from aquatic environments 733(1996)473
- Use of porous polymers in off-line preconcentration of nitrobenzenes and their reduction products from water 733(1996)491
- Use of capillary gas chromatography for measuring fecal-derived sterols. Application to stormwater, the sea-surface microlayer, beach greases, regional studies, and distinguishing algal blooms and human and non-human sources of sewage pollution 733(1996)497
- Wastewater from the manufacture of rubber vulcanization accelerators: characterization, downstream monitoring and chemical treatment 733(1996)511
- Separation of eleven priority phenols by capillary zone electrophoresis with ultraviolet detection 734(1996)367
- Determination of polar pesticides in ground water using liquid chromatography–mass spectrometry with atmospheric pressure chemical ionization 736(1996)105
- Determination of organochlorine pesticides in water by membranous solid-phase extraction, and in sediment by microwave-assisted solvent extraction with gas chromatography and electron-capture and mass spectrometric detection 736(1996)211
- Analysis of organophosphorus insecticides from environmental samples using solid-phase microextraction 736(1996)219
- Evaluation of new polymeric sorbents with high specific surface areas using an on-line solid-phase extraction–liquid chromatographic system for the trace-level determination of polar pesticides 737(1996)15
- Simple removal of humic and fulvic acid interferences using polymeric sorbents for the simultaneous solid-phase extraction of polar acidic, neutral and basic pesticides 737(1996)25
- On-line solid-phase extraction in liquid chromatography using restricted access pre-columns for the analysis of *s*-triazines in humic-containing waters 737(1996)35
- Automated sample preparation with extraction columns followed by liquid chromatography–ionspray mass spectrometry. Interferences, determination and degradation of polar organophosphorus pesticides in water samples 737(1996)47
- Development of a prototype system for quasi-continuous analysis of organic contaminants in surface or sewage water based on in-line coupling of solid-phase microextraction to gas chromatography 737(1996)59
- Pesticide monitoring of drinking water with the help of solid-phase extraction and high-performance liquid chromatography 737(1996)67
- Rapid determination of glufosinate, glyphosate and aminomethylphosphonic acid in environmental water samples using precolumn fluorogenic labeling and coupled-column liquid chromatography 737(1996)75
- Analysis of chlorinated 1,3-butadienes by solid-phase microextraction and gas chromatography–mass spectrometry 737(1996)85
- Determination and stability of pesticides in freeze-dried water samples by automated on-line solid-phase extraction followed by liquid chromatography with diode-array detection 737(1996)93
- On-line and off-line solid–liquid extraction and liquid chromatographic analysis at trace levels, for monitoring of herbicides and their degradation products in river and fluvio–estuarine freshwater–seawater interfaces 737(1996)117
- Determination of phenolic compounds in natural waters by liquid chromatography with ultraviolet and electrochemical detection after on-line trace enrichment 738(1996)1
- Determination of nitrilotriacetic, ethylenediaminetetraacetic and diethylenetriaminepentaacetic acids in sewage treatment plant and paper mill effluents 738(1996)91
- Optimization of a drying method for filtered suspended solids from natural waters for supercritical fluid extraction analysis of hydrophobic organic compounds 738(1996)253
- Ion-pair reversed-phase high-performance liquid chromatography of algal chlorophylls 738(1996)285
- Method development for trace analysis of heteroaromatic compounds in contaminated groundwater 738(1996)295

- Simultaneous analysis of some transition metals at ultra-trace level by ion-exchange chromatography with on-line preconcentration 739(1996)119
- Determination of phosphate and sulphite in natural waters in the presence of high sulphate concentrations by ion chromatography under isocratic conditions 739(1996)207
- Analysis of fluoride in rain water 739(1996)241
- Application of ion chromatography to the Hong Kong rainfall monitoring program 739(1996)249
- Determination of major element chemistry in terrestrial waters from Antarctica by ion chromatography 739(1996)257
- Ion chromatographic cation analysis of effluent waters from scale dissolver treatments 739(1996)265
- Rapid method for the analysis of a variety of chemical classes of pesticides in surface and ground waters by off-line solid-phase extraction and gas chromatography-ion trap mass spectrometry 740(1996)83
- Determination of sulfide in the leather industry by capillary electrophoresis 740(1996)125
- Chlorinated acid herbicides in water by strong anion-exchange disk extraction and in-vial elution and derivatization 741(1996)85
- Application of solid-phase microextraction to the analysis of volatile organic compounds in water 742(1996)181
- Trace analysis of explosives in water by gas chromatography-mass spectrometry with a temperature-programmed injector 742(1996)205
- Determination of chlorophenols in drinking water with high resolution gas chromatography-tandem mass spectrometry 743(1996)283
- Method for the separation of uranium(IV) and (VI) oxidation states in natural waters 743(1996)335
- Capillary electrophoretic estimation of sulfate stability constants of metal ions and determination of alkali and alkaline earth metals in waters 745(1996)127
- Herbicide analysis by micellar electrokinetic capillary chromatography 745(1996)201
- Analysis of single raindrops in the nl range by capillary electrophoresis 745(1996)209
- Development of a whole headspace injection method for the determination of volatile organic compounds in water 746(1996)83
- Determination of imidacloprid in water and soil samples by gas chromatography-mass spectrometry 746(1996)289
- Optimization of solid-phase extraction method for analysis of low-ppb amounts of aldehydes-ozonation by-products 749(1996)157
- Speciation of chromium in waste waters by coupled column ion chromatography-inductively coupled plasma mass spectrometry 750(1996)89
- Automated at-line solid-phase extraction-gas chromatographic analysis of micropollutants in water using the PrepStation 750(1996)161
- Solid-phase extraction of polar pesticides from environmental water samples on graphitized carbon and Empore-activated carbon disks and on-line coupling to octadecyl-bonded silica analytical columns 750(1996)227
- Simultaneous determination of 3,4-dimethoxybenzaldehyde and 3,4-dimethoxyphenylacetone in industrial waste waters by high-performance liquid chromatography-diode array detection 750(1996)257
- Hyphenated techniques for characterizing coal wastewaters and associated sediments 750(1996)287
- Quantification of two chromatographic unresolved dichlorophenols using gas chromatography-direct deposition-Fourier transform infrared spectrometry and multivariate calibration 750(1996)341
- Wave theory**
Non-linear waves in chromatography (Review) 734(1996)7
- Whey**
Preparative membrane adsorber chromatography for the isolation of cow milk components 729(1996)87
- Wiener indices**
Using topological indices in the prediction of gas chromatographic retention indices of linear alkylbenzene isomers 719(1996)462
- Windowless photoionization detector**
Windowless pulsed-discharge photoionization detector. Application to qualitative analysis of volatile organic compounds 724(1996)235
- Wine**
Determination of biogenic amines and their precursor amino acids in wines of the Vallée du Rhône by high-performance liquid chromatography with precolumn derivatization and fluorimetric detection 707(1995)373
- Assay of resveratrol glucosides and isomers in wine by direct-injection high-performance liquid chromatography 708(1995)89
- Capillary electrophoretic separation of phenolic acids 709(1995)209
- Improvement of a solid-phase extraction method for determining biogenic amines in wines 718(1995)309

Determination of mono-, poly- and hydroxy-carboxylic acid profiles of beverages as their 2-nitrophenylhydrazides by reversed-phase ion-pair chromatography 721(1996)261

Gas chromatographic amino acid profiling of wine samples for pattern recognition 722(1996)303

Selection of column and gradient for the separation of polyphenols in sherry wine by high-performance liquid chromatography incorporating internal standards 724(1996)117

Automation of sample preparation as a preliminary stage in the high-performance liquid chromatographic determination of polyphenolic compounds in sherry wines 730(1996)39

Resveratrol content of some wines obtained from dried Valpolicella grapes: Recioto and Amarone 730(1996)47

New and efficient microextraction/solid-phase extraction method for the gas chromatographic analysis of wine volatiles 731(1996)247

Determination of sulphite and sulphate by ion chromatography using a weakly basic phthalate eluent 732(1996)403

Determination of carboxylic acids and inorganic anions in wines by ion-exchange chromatography 736(1996)351

Determination of biogenic amines in wine after precolumn derivatization with 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate 737(1996)205

Automated on-line solid-phase extraction-high-performance liquid chromatography-diode array detection of phenolic compounds in sherry wine 750(1996)209

Wood

Applications of thin-layer chromatography to process control in the pulp and paper field 730(1996)373

Coupling of thermal desorption in modified closeable sampling columns with wide-bore capillary gas chromatography and mass spectrometric detection 750(1996)239

Wool

Determination of black dyes from cotton and wool fibres by capillary zone electrophoresis with UV detection: application of marker technique 717(1995)149

X

X-Ray detector

Element-sensitive X-ray detection for capillary electrophoresis 727(1996)301

X-Ray diffraction

Thiol pegylation facilitates purification of chymopapain leading to diffraction studies at 1.4 Å resolution 749(1996)69

Z

Z11556A

Separation of the four stereoisomers of Z11556A, intermediate in the synthesis of triazole antimycotics, by capillary electrophoresis 741(1996)123

Zeta potential

Electroosmosis in capillary zone electrophoresis with non-uniform zeta potential 709(1995)51

Contribution of the electroosmotic flow to peak broadening in capillary zone electrophoresis with uniform zeta potential 709(1995)63

Control of the electroosmotic flow by metal-salt-containing buffers 716(1995)97

Zirconia

Adsorbents for the removal of humic acid from surface water based on modified porous zirconia and silica 711(1995)223

Synthesis and chromatographic characterization of dextran-coated zirconia high-performance liquid chromatographic stationary phases 746(1996)199

Zone mobilisation

Dispersion effects accompanying pressurized zone mobilisation in capillary isoelectric focusing of proteins 738(1996)123

Zone overlap

Multidimensionality in planar chromatography 703(1995)573