



CUMULATIVE COMPOUND INDEX

J. CHROMATOGR. A VOLS. 952–1000

For all compound groups: see also sub-groups and individual compounds
For all compound sub-groups: see also main groups and individual compounds
For all individual compounds: see also compounds groups and sub-groups

A

Abamectin

Determination of abamectin and azadirachtin residues in orange samples by liquid chromatography–electrospray tandem mass spectrometry 992(2003)133

Acenaphthene

High-performance liquid chromatographic stationary phases based on poly(methyloctylsiloxane) immobilized on silica. III. Stability evaluations 987(2003)93

Acetaldehyde

Pervaporation–gas chromatography coupling for slurry samples. Determination of acetaldehyde and acetone in food 976(2002)399

Analysis of DNA adducts of acetaldehyde by liquid chromatography–mass spectrometry 987(2003)341

Acetic acids

Analysis of ergosteroids. VIII: Enhancement of signal response of neutral steroidal compounds in liquid chromatographic–electrospray ionization mass spectrometric analysis by mobile phase additives 964(2002)137

Vacancy ion-exclusion chromatography of haloacetic acids on a weakly acidic cation-exchange resin 997(2003)133

Determination of trace levels of haloacetic acids and perchlorate in drinking water by ion chromatography with direct injection 997(2003)225

Determination of chloride and sulfate in semiconductor-grade etchants comprised of acetic acid, nitric acid and phosphoric acid 997(2003)269

Acetochlor

Accurate mass analysis of ethanesulfonic acid degradates of acetochlor and alachlor using high-performance liquid chromatography and time-of-flight mass spectrometry 957(2002)3

Determination of oxanilic and sulfonic acid metabolites of acetochlor in soils by liquid chromatography–electrospray ionisation mass spectrometry 957(2002)69

Acetonaphthone

Role of buffer concentration and applied voltage in obtaining a good separation in planar electrochromatography 983(2003)247

Acetone

Pervaporation–gas chromatography coupling for slurry samples. Determination of acetaldehyde and acetone in food 976(2002)399

Quantitative accuracy in the gas chromatographic analysis of solvent mixtures 985(2003)21

Acetonitrile

Determination of electroosmotic flow mobility with a pressure-mediated dual-ion technique for capillary electrophoresis with conductivity detection using organic solvents 960(2002)199

Capillary electrophoresis of methyl-substituted phenols in acetonitrile 990(2003)35

Acetoxypogesterone

Role of buffer concentration and applied voltage in obtaining a good separation in planar electrochromatography 983(2003)247

Acetylcholinesterase inhibitor

Determination of the dissociation constants (pK_a) of basic acetylcholinesterase inhibitors by reversed-phase liquid chromatography 958(2002)59

Acetylneuraminic acid

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Acetylneuraminylactose

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Acetylsalicylic acid

Application of capillaries with minimized electroosmotic flow to the electrokinetic study of acidic drug- β -oleoyl- γ -palmitoyl-L- α -phosphatidyl choline liposome interactions 990(2003)205

Affinity electrochromatography of acidic drugs using a liposome-modified capillary 990(2003)281

Acidic drugs

see also Drugs

Analysis of acidic drugs in the effluents of sewage treatment plants using liquid chromatography-electrospray ionization tandem mass spectrometry 952(2002)139

Aconitine

Determination of five toxic alkaloids in two common herbal medicines with capillary electrophoresis 973(2002)243

Acridine

Surface and wastewater quality monitoring: combination of liquid chromatography with (geno)toxicity detection, diode array detection and tandem mass spectrometry for identification of pollutants 970(2002)167

Acrylonitrile

Determining and correcting "moment bias" in gradient polymer elution chromatography 996(2003)45

Acylarylalkylamines

Enantioseparation of racemic *N*-acylarylalkylamines on various amino alcohol derived π -acidic chiral stationary phases 987(2003)429

Acylcarnitines

Determination of carnitine and acylcarnitines in urine by high-performance liquid chromatography-electrospray ionization ion trap tandem mass spectrometry 984(2003)203

Acylglycerols

Gas chromatographic determination of fatty acids contained in different lipid classes after their separation by solid-phase extraction 976(2002)47

Adenine

Determination of purine and pyrimidine bases in DNA by micellar electrokinetic capillary chromatography with electrochemical detection 954(2002)267

Adenine nucleotides

Determination of pyridine and adenine nucleotide metabolites in *Bacillus subtilis* cell extract by sweeping borate complexation capillary electrophoresis 989(2003)293

Adipates

Application of on-line solid-phase extraction-gas chromatography-mass spectrometry to the determination of endocrine disruptors in water samples 963(2002)287

Determination of adipate plasticizers in poly(vinyl chloride) by microwave-assisted extraction 963(2002)401

Aflatoxins

see also Toxins

Screening of aflatoxins in feed samples using a flow system coupled to capillary electrophoresis 967(2002)303

Aglycones

Analysis of anthraquinones in *Rubia tinctorum* L. by liquid chromatography coupled with diode-array UV and mass spectrometric detection 978(2002)119

Determination of daidzein and genistein in soybean foods by automated on-line in-tube solid-phase microextraction coupled to high-performance liquid chromatography 986(2003)169

Identification of flavone aglycones and glycosides in soybean pods by liquid chromatography-tandem mass spectrometry 991(2003)61

Alachlor

Accurate mass analysis of ethanesulfonic acid degradates of acetochlor and alachlor using high-performance liquid chromatography and time-of-flight mass spectrometry 957(2002)3

Rapid trace analysis of alachlor in water and vegetable samples 963(2002)125

Alanine

Determination of free L- and D-alanine in hydrolysed protein fertilisers by capillary electrophoresis 985(2003)463

Albumin

Chemiluminescence detection coupled to high-performance frontal analysis for the determination of unbound concentrations of drugs in protein binding equilibrium 952(2002)131

Erratum to "Characterization of enthalpic events in overloaded ion-exchange chromatography". [J. Chromatogr. A, 944 (2002) 61–68] 952(2002)301

Solvent effect on protein binding by polymer brush grafted onto porous membranes 953(2002)101

Use of a linear gradient flow program for liquid chromatography–mass spectrometry protein-binding studies 955(2002)237

Steric mass-action model for dye–ligand affinity adsorption of protein 957(2002)89

Study on protein adsorption kinetics to a dye–ligand adsorbent by the pore diffusion model 964(2002)35

Evaluation and applications of a new dye affinity adsorbent 972(2002)21

Voltage-controlled separation of proteins by electromobility focusing in a dialysis hollow fiber 985(2003)455

Temperature influence on the dynamic binding capacity of a monolithic ion-exchange column 987(2003)159

Determination of amoxicillin in human plasma by direct injection and coupled-column high-performance liquid chromatography 987(2003)235

Modeling of the salt effects on hydrophobic adsorption equilibrium of protein 992(2003)29

Alcohol ethoxylates

Liquid exclusion–adsorption chromatography, a new technique for isocratic separation of nonionic surfactants. IV. Two-dimensional separation of fatty alcohol ethoxylates with focusing of fractions 952(2002)149

Liquid chromatography–mass spectrometry method to determine alcohol ethoxylates and alkylamine ethoxylates in soil interstitial water, ground water and surface water samples 957(2002)45

Retention mechanism of fatty alcohol ethoxylates in reversed-phase liquid chromatography 986(2003)199

Alcohols

see also Volatile organic compounds

Optimisation of headspace solid-phase microextraction for analysis of aromatic compounds in vinegar 953(2002)7

Simultaneous modeling of the Kovats retention indices on OV-1 and SE-54 stationary phases using artificial neural networks 955(2002)273

Capillary electrophoresis in aqueous–organic media. Ionic strength effects and limitations of the Hubbard–Onsager dielectric friction model 964(2002)213

Fast liquid chromatography–electrochemistry–mass spectrometry of ferrocenecarboxylic acid esters 974(2002)103

Comprehensive two-dimensional gas chromatography of volatile and semi-volatile components using a diaphragm valve-based instrument 983(2003)195

Chiral separation of γ -butyrolactone derivatives by gas chromatography on 2,3-di-*O*-methyl-6-*O*-*tert*-butyldimethylsilyl- β -cyclodextrin 985(2003)321

Prediction of the plate height of capillary columns operated at any inlet pressure of the carrier gas by using few retention data measured under isobaric conditions 994(2003)103

Ion-exclusion chromatographic behavior of aliphatic carboxylic acids and benzenecarboxylic acids on a sulfonated styrene–divinylbenzene co-polymer resin column with sulfuric acid containing various alcohols as eluent 997(2003)95

Aldehyde-2,4-dinitrophenylhydrazone

Isomerization of aldehyde-2,4-dinitrophenylhydrazone derivatives and validation of high-performance liquid chromatographic analysis 996(2003)95

Aldehydes

see also Carbonyl compounds and Volatile organic compounds

Optimisation of headspace solid-phase microextraction for analysis of aromatic compounds in vinegar 953(2002)7

Time-weighted average sampling of airborne *n*-valeraldehyde by a solid-phase microextraction device 954(2002)191

Gas chromatographic determination of glutaraldehyde in the workplace atmosphere after derivatization with *O*-(2,3,4,5,6-pentafluorobenzyl)hydroxylamine on a solid-phase microextraction fibre 955(2002)117

Temperature dependence of Kováts indices in gas chromatography revisited 973(2002)135

Laser-induced fluorescence and UV detection of derivatized aldehydes in air samples using capillary electrophoresis 979(2002)409

Simultaneous determination of long-chain aliphatic aldehydes and waxes in olive oils 983(2003)283

Evaluation of headspace solid-phase microextraction for the analysis of volatile carbonyl compounds in spirits and alcoholic beverages 984(2003)89

Analysis of DNA adducts of acetaldehyde by liquid chromatography–mass spectrometry 987(2003)341

Solid-phase microextraction from small volumes of sample in a glass capillary 988(2003)25

Kinetic analysis and subambient temperature on-line on-column derivatization of an active aldehyde 995(2003)67

Algal toxins

Liquid chromatography–electrospray ionisation–mass spectrometry based method for the simultaneous determination of algal and cyanobacterial toxins in phytoplankton from marine waters and lakes followed by tentative structural elucidation of microcystins 994(2003)45

Alizarin

Analysis of anthraquinones in *Rubia tinctorum* L. by liquid chromatography coupled with diode-array UV and mass spectrometric detection 978(2002)119

Alkali metals

Determination of inorganic cations and ammonium in environmental waters by ion chromatography with a high-capacity cation-exchange column 956(2002)181

Retention of alkali, alkaline earth and transition metals on an itaconic acid cation-exchange column. Eluent pH, ionic strength and temperature effects upon selectivity 964(2002)113

1,3-Dialkylimidazolium-based room-temperature ionic liquids as background electrolyte and coating material in aqueous capillary electrophoresis 985(2003)447

Alkaline-earth metals

Ethylenediamine as eluent component in cation chromatography. Predictive and comparative study for analysis of alkaline earth ions 955(2002)1

Determination of inorganic cations and ammonium in environmental waters by ion chromatography with a high-capacity cation-exchange column 956(2002)181

Retention of alkali, alkaline earth and transition metals on an itaconic acid cation-exchange column. Eluent pH, ionic strength and temperature effects upon selectivity 964(2002)113

1,3-Dialkylimidazolium-based room-temperature ionic liquids as background electrolyte and coating material in aqueous capillary electrophoresis 985(2003)447

Alkaloids

Screening of *Catharanthus roseus* secondary metabolites by high-performance liquid chromatography 955(2002)87

Enantioseparation of various amino acid derivatives on a quinine based chiral anion-exchange selector at variable temperature conditions. Influence of structural parameters of the analytes on the apparent retention and enantioseparation characteristics 960(2002)97

Simultaneous determination of berberine in rat blood, liver and bile using microdialysis coupled to high-performance liquid chromatography 961(2002)125

Analysis of the *Cinchona* alkaloids by high-performance liquid chromatography and other separation techniques (Review) 967(2002)1

Polyhydroxy alkaloids: chromatographic analysis (Review) 967(2002)57

Chromatography of the chromone and flavonoid alkaloids (Review) 967(2002)75

High-performance liquid chromatographic, capillary electrophoretic and capillary electrophoretic–electrospray ionisation mass spectrometric analysis of selected alkaloid groups (Review) 967(2002)85

Optimization of the separation of *Vinca* alkaloids by nonaqueous capillary electrophoresis 968(2002)241

Determination of five toxic alkaloids in two common herbal medicines with capillary electrophoresis 973(2002)243

Analysis of tropane and related alkaloids (Review) 978(2002)1

Use of dynamically coated capillaries with added cyclodextrins for the analysis of opium using capillary electrophoresis 984(2003)109

Separation of opiate alkaloids by electrokinetic chromatography with sulfated-cyclodextrin as a pseudo-stationary phase 985(2003)493

Preparation of a molecularly imprinted polymer for the solid-phase extraction of scopolamine with hyoscyamine as a dummy template molecule 987(2003)103

Enantiomer separation of *N*-protected amino acids by non-aqueous capillary electrophoresis and high-performance liquid chromatography with *tert*-butyl carbamoylated quinine in either the background electrolyte or the stationary phase 987(2003)421

Lipophilicity of vinpocetine and related compounds characterized by reversed-phase thin-layer chromatography 996(2003)195

Alkamides

Simultaneous analysis of caffeic acid derivatives and alkamides in roots and extracts of *Echinacea purpurea* by high-performance liquid chromatography–photodiode array detection–electrospray mass spectrometry 986(2003)73

Alkanenitriles

Minimum in the temperature dependence of the Kováts retention indices of nitroalkanes and alkanenitriles on an apolar phase 985(2003)11

Alkanes

Effects of solvent density on retention in gas–liquid chromatography. I. Alkanes solutes in polyethylene glycol stationary phases 953(2002)151

Temperature effects on the retention of *n*-alkanes and arenes in helium–squalane gas–liquid chromatography. Experiment and molecular simulation 954(2002)181

Inverse gas chromatographic measurement of solubility parameters in liquid crystalline systems 964(2002)199

Contribution to the time balance in gas–liquid chromatography. New definition equations of the retention times and retention volumes 966(2002)145

New approach to characterise physicochemical properties of solid substrates by inverse gas chromatography at infinite dilution. I. Some new methods to determine the surface areas of some molecules adsorbed on solid surfaces 969(2002)17

New approach to characterise physicochemical properties of solid substrates by inverse gas chromatography at infinite dilution. II. Study of the transition temperatures of poly(methyl methacrylate) at various tacticities and of poly(methyl methacrylate) adsorbed on alumina and silica 969(2002)27

Characterization of the interactions in polymer–filler systems by inverse gas chromatography 969(2002)255

Comprehensive two-dimensional gas chromatography of volatile and semi-volatile components using a diaphragm valve-based instrument 983(2003)195

Solid-phase microextraction for the analysis of short-chain chlorinated paraffins in water samples 984(2003)1

Prediction of the plate height of capillary columns operated at any inlet pressure of the carrier gas by using few retention data measured under isobaric conditions 994(2003)103

Two-step multivariate adaptive regression splines for modeling a quantitative relationship between gas chromatography retention indices and molecular descriptors 998(2003)155

Alkenes

Application of inverse gas chromatography to the examination of annealing processes of semi-synthetic base oils 982(2002)245

Alkenones

Pressurized liquid extraction of selected molecular biomarkers in deep sea sediments used as proxies in paleoceanography 989(2003)197

Alkenylpyridines

Prediction of electrophoretic mobilities of alkyl- and alkenylpyridines in capillary electrophoresis using artificial neural networks 971(2002)207

Alkylamine ethoxylates

Liquid chromatography–mass spectrometry method to determine alcohol ethoxylates and alkylamine ethoxylates in soil interstitial water, ground water and surface water samples 957(2002)45

Alkylamines

Enantioseparation of racemic *N*-acylarylalkylamines on various amino alcohol derived π -acidic chiral stationary phases 987(2003)429

Alkylbenzenes

Adsorption equilibria of butyl- and amylbenzene on monolithic silica-based columns 957(2002)111

Effect of preparatory conditions on the performance of photopolymerized sol–gel monoliths for capillary electrochromatography 961(2002)45

Monolithic silica columns with various skeleton sizes and through-pore sizes for capillary liquid chromatography 961(2002)53

Determination of volatile organic compounds in ambient air. Comparison of methods 976(2002)369

Alkyl benzenesulfonates, linear

Determination of toxic compounds in paper-recycling process waters by gas chromatography–mass spectrometry and liquid chromatography–mass spectrometry 963(2002)265

Determination of linear alkylbenzenesulfonates in aqueous matrices by ion-pair solid-phase microextraction–in-port derivatization–gas chromatography–mass spectrometry 999(2003)51

Alkyl benzyl quaternary ammonium compounds

Determination of alkyl benzyl and dialkyl dimethyl quaternary ammonium biocides in occupational hygiene and environmental media by liquid chromatography with electrospray ionisation mass spectrometry and tandem mass spectrometry 952(2002)165

Alkylmethoxy-pyrazines

Headspace solid-phase microextraction analysis of 3-alkyl-2-methoxy-pyrazines in wines 953(2002)1

1-Alkyl-3-methylimidazolium

Application of 1-alkyl-3-methylimidazolium-based ionic liquids in non-aqueous capillary electrophoresis 979(2002)27

Alkylphenolic compounds

Pressurized liquid extraction followed by liquid chromatography–mass spectrometry for the determination of alkylphenolic compounds in river sediment 959(2002)15

Column-switching system with restricted access pre-column packing for an integrated sample cleanup and liquid chromatographic–mass spectrometric analysis of alkylphenolic compounds and steroid sex hormones in sediment 971(2002)37

Alkylphenol polyethoxylates

Determination of nineteen 4-alkylphenol endocrine disrupters in Geneva municipal sewage wastewater 976(2002)335

Alkylphenols

Optimization of a derivatization–solid-phase microextraction method for the analysis of thirty phenolic pollutants in water samples 963(2002)137

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Recent advances in the mass spectrometric analysis related to endocrine disrupting compounds in aquatic environmental samples (Review) 974(2002)23

Determination of 4-ethylguaiacol and 4-ethylphenol in red wines using headspace-solid-phase microextraction-gas chromatography 975(2002)349

Determination of nineteen 4-alkylphenol endocrine disrupters in Geneva municipal sewage wastewater 976(2002)335

Separation and on-line concentration of bisphenol A and alkylphenols by micellar electrokinetic chromatography with cationic surfactant 979(2002)425

Determination of 4-alkylphenols by novel derivatization and gas chromatography–mass spectrometry 984(2003)237

Monolithic silica column for in-tube solid-phase microextraction coupled to high-performance liquid chromatography 985(2003)351

On-column concentration of bisphenol A with one-step removal of humic acids in water 987(2003)389

Capillary electrophoresis of methyl-substituted phenols in acetonitrile 990(2003)35

Liquid chromatography–(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment 1000(2003)503

Alkylphenones

Role of the retaining precolumn in large-volume on-column injections of volatiles to gas chromatography 975(2002)95

Automated microgradient system for capillary electrochromatography 990(2003)3

Alkyl phenyl ketones

Novel alkyl-modified anionic siloxanes as pseudostationary phases for electrokinetic chromatography. III. Performance in organic-modified buffers 959(2002)255

Alkylphosphonic acids

Determination of alkylphosphonic acids using micellar electrokinetic chromatography with laser-induced fluorescence detection and high-salt stacking 966(2002)239

Alkylpyridines

Prediction of electrophoretic mobilities of alkyl- and alkenylpyridines in capillary electrophoresis using artificial neural networks 971(2002)207

N-Alkylpyridinium chloride

Binding of ionic surfactants to charged polymer brushes grafted onto porous substrates 954(2002)89

Alkyl sulfides

Determination of volatile alkyl sulfides in wastewater by headspace solid-phase microextraction followed by gas chromatography–mass spectrometry 963(2002)249

Alkyl sulfonates

Optimisation by experimental design of a capillary electrophoretic method for the separation of several inhibitors of angiotensin-converting enzyme using alkylsulfonates 978(2002)231

Alkyltrimethylammonium compounds

Solid phase extraction sorbent consisting of alkyltrimethylammonium surfactants immobilized onto strong cation-exchange polystyrene resin 975(2002)135

Alliin

High-performance ion-pair chromatography method for simultaneous analysis of alliin, deoxyalliin, alliin and dipeptide precursors in garlic products using multiple mass spectrometry and UV detection 991(2003)69

Alliin

High-performance ion-pair chromatography method for simultaneous analysis of alliin, deoxyalliin, allicin and dipeptide precursors in garlic products using multiple mass spectrometry and UV detection 991(2003)69

Allophycocyanin

Separation and quantitation of phycobiliproteins using phytic acid in capillary electrophoresis with laser-induced fluorescence detection 972(2002)269

Allyl- β -cyclodextrin

Stable homogeneous gel for molecular-sieving of DNA fragments in capillary electrophoresis 960(2002)221

 α_1 -Acid glycoprotein

Collection of α_1 -acid glycoprotein molecular species by capillary electrophoresis and the analysis of their molecular masses and carbohydrate chains. Basic studies on the analysis of glycoprotein glycoforms 958(2002)273

Alternariol

Liquid chromatography–mass spectrometry and liquid chromatography–tandem mass spectrometry of the *Alternaria* mycotoxins alternariol and alternariol monomethyl ether in fruit juices and beverages 998(2003)119

Alternariol monomethyl ether

Liquid chromatography–mass spectrometry and liquid chromatography–tandem mass spectrometry of the *Alternaria* mycotoxins alternariol and alternariol monomethyl ether in fruit juices and beverages 998(2003)119

Alumina

Modified aluminas as chromatographic supports for high-performance liquid chromatography (Review) 952(2002)1

Concentration of chlorophenols in water with sodium dodecylsulfate- γ -alumina admicelles for high-performance liquid chromatographic analysis 972(2002)205

Aluminum

Determination of aluminum in environmental and biological samples by reversed-phase high-performance liquid chromatography via pre-column complexation with morin 993(2003)179

Amantadine

(2-Naphthoxy)acetyl chloride, a simple fluorescent reagent 987(2003)205

Indirect capillary electrophoresis with 8-anilino-1-naphthalenesulfonic acid as a fluorescence probe for determining the apparent stability constant of an inclusion complex formed between a cyclodextrin and a solute 987(2003)485

Amides

Fast enantioseparation of arylglycine amides by capillary electrophoresis with highly sulfated- β -cyclodextrin as a chiral selector 998(2003)221

Amines

see also Biogenic amines and Catecholamines

Organic analysis by ion chromatography. 1. Determination of aromatic amines and aromatic diisocyanates by cation-exchange chromatography with amperometric detection 956(2002)215

Liquid chromatographic resolution of racemic amines, amino alcohols and related compounds on a chiral crown ether stationary phase 959(2002)75

Automated capillary liquid chromatography for simultaneous determination of neuroactive amines and amino acids 962(2002)105

Influence of chromatographic conditions on separation in comprehensive gas chromatography 962(2002)135

Retention of ionizable compounds in high-performance liquid chromatography. 14. Acid–base pK values in acetonitrile–water mobile phases 964(2002)55

Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3

Comparative study of naphthalene-2,3-dicarboxaldehyde and *o*-phthalaldehyde fluorogenic reagents for chromatographic detection of sphingoid bases 977(2002)69

Preconcentration and dansylation of aliphatic amines using C₁₈ solid-phase packings. Application to the screening analysis in environmental water samples 978(2002)59

Electrophoretic analysis of amines using reversed-phase, reversed-polarity, head-column field-amplified sample stacking and laser-induced fluorescence detection 979(2002)171

Separation and enantioseparation of derivatized amino acids and biogenic amines by high-performance liquid chromatography with reversed and chiral stationary phases 979(2002)191

Separation and determination of nitrobenzenes by micellar electrokinetic chromatography and high-performance liquid chromatography 979(2002)439

Chiral separation of amines with *N*-benzoxycarbonylglycyl-*L*-proline as selector in non-aqueous capillary electrophoresis using methanol and 1,2-dichloroethane in the background electrolyte 984(2003)261

Development of a chiral non-aqueous capillary electrophoretic system using the partial filling technique with UV and mass spectrometric detection 986(2003)143

Titanium(IV) tungstosilicate and titanium(IV) tungstophosphate: two new inorganic ion exchangers 987(2003)147

Quantitation of amino acids and amines in the same matrix by high-performance liquid chromatography, either simultaneously or separately 987(2003)291

New aspects of the simultaneous analysis of amino acids and amines as their *o*-phthaldialdehyde derivatives by high-performance liquid chromatography. Analysis of wine, beer and vinegar 987(2003)311

Separation of proteins on polymeric stationary phases grafted with various amine groups 987(2003)323

Enantioseparation of racemic *N*-acylarylalkylamines on various amino alcohol derived π -acidic chiral stationary phases 987(2003)429

Determination of biogenic amines as dansyl derivatives in alcoholic beverages by high-performance liquid chromatography with fluorimetric detection and characterization of the dansylated amines by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 996(2003)103

Novel cation-exchange column for the separation of hydrophobic and/or polyvalent amines 997(2003)199

Mixed-mode electrokinetic chromatography of aromatic bases with two pseudo-stationary phases and pH control 997(2003)207

Ion-pair high-performance liquid chromatographic determination of biogenic amines and polyamines in wine and other alcoholic beverages 998(2003)235

Amines, aromatic

Harmful azo colorants in leather. Determination based on their cleavage and extraction of corresponding carcinogenic aromatic amines using modern extraction techniques 955(2002)215

Simultaneous separation of common mono- and divalent cations on a calcinated silica gel column by ion chromatography with indirect photometric detection and aromatic monoamines–oxalic acid, containing crown ethers, used as eluent 956(2002)147

Liquid–liquid–liquid microextraction of aromatic amines from water samples combined with high-performance liquid chromatography 963(2002)231

Analysis of aromatic amines in water samples by liquid–liquid–liquid microextraction with hollow fibers and high-performance liquid chromatography 963(2002)239

Determination of aromatic amines formed from azo colorants in toy products 976(2002)309

Determination of primary aromatic amines in water food simulant using solid-phase analytical derivatization followed by gas chromatography coupled with mass spectrometry 983(2003)35

New technique using solid-phase extraction for the analysis of aromatic amines in mainstream cigarette smoke 991(2003)99

Determination of aromatic amine mutagens, PBTA-1 and PBTA-2, in river water by solid-phase extraction followed by liquid chromatography–tandem mass spectrometry 995(2003)239

Amines, heterocyclic

Blue Chitin columns for the extraction of heterocyclic amines from cooked meat 977(2002)97

Amino acid amides

Comparison of enantioseparations using Cu(II) complexes with L-amino acid amides as chiral selectors or chiral stationary phases by capillary electrophoresis, capillary electrochromatography and micro liquid chromatography 990(2003)75

α -Amino acid *N*-carboxyanhydrides

Kinetic study of the polymerization of α -amino acid *N*-carboxyanhydrides in aqueous solution using capillary electrophoresis 952(2002)239

Amino acids

Improving separation efficiency of capillary zone electrophoresis of tryptophan and phenylalanine with the transient moving chemical reaction boundary method 952(2002)39

Kinetic study of the polymerization of α -amino acid *N*-carboxyanhydrides in aqueous solution using capillary electrophoresis 952(2002)239

New triazine spectroscopic reagent for the separation of DL-amino acids by micellar electrokinetic chromatography 955(2002)125

Chiral separation of amino acids derivatized with fluoresceine-5-isothiocyanate by capillary electrophoresis and laser-induced fluorescence detection using mixed selectors of β -cyclodextrin and sodium taurocholate 955(2002)133

Direct high-performance liquid chromatographic enantioseparation of apolar β -amino acids on a quinine-derived chiral anion-exchanger stationary phase 955(2002)141

Method of intracellular naphthalene-2,3-dicarboxaldehyde derivatization for analysis of amino acids in a single erythrocyte by capillary zone electrophoresis with electrochemical detection 959(2002)269

Enantioseparation of various amino acid derivatives on a quinine based chiral anion-exchange selector at variable temperature conditions. Influence of structural parameters of the analytes on the apparent retention and enantioseparation characteristics 960(2002)97

A comparative study of commercial liquid chromatographic detectors for the analysis of underivatized amino acids 961(2002)9

- Automated capillary liquid chromatography for simultaneous determination of neuroactive amines and amino acids 962(2002)105
- Electrophoretic studies on the chelating tendency of bioactive sulphur-containing amino acids. The metal–methylcysteine–cysteine system 962(2002)233
- Use of capillary electrophoresis and laser-induced fluorescence for attomole detection of amino acids 964(2002)243
- Simultaneous determination of amino acids and carbohydrates by anion-exchange chromatography with integrated pulsed amperometric detection 966(2002)89
- Reversed-phase liquid chromatography as a tool in the determination of the hydrophilicity/hydrophobicity of amino acid side-chains at a ligand–receptor interface in the presence of different aqueous environments. I. Effect of varying receptor hydrophobicity 972(2002)45
- Reversed-phase liquid chromatography as a tool in the determination of the hydrophilicity/hydrophobicity of amino acid side-chains at a ligand–receptor interface in the presence of different aqueous environments. II. Effect of varying peptide ligand hydrophobicity 972(2002)61
- High-performance liquid chromatographic separation and indirect fluorescence detection of thiols 972(2002)221
- Continuous flow derivatization system coupled to capillary electrophoresis for the determination of amino acids 976(2002)55
- Mathematical correlations for predicting protein retention times in hydrophobic interaction chromatography 978(2002)71
- Super/subcritical fluid chromatography chiral separations with macrocyclic glycopeptide stationary phases 978(2002)185
- Chiral separation of amino acids by capillary electrophoresis with octyl- β -thioglucopyranoside as chiral selector 978(2002)221
- Effect of feed zone width on product purity in preparative-scale, continuous free-flow isoelectric focusing separation of enantiomers 979(2002)123
- Separation and enantioseparation of derivatized amino acids and biogenic amines by high-performance liquid chromatography with reversed and chiral stationary phases 979(2002)191
- Rapid method for the determination of amino acids in serum by capillary electrophoresis 979(2002)227
- Direct determination of free amino acids and sugars in green tea by anion-exchange chromatography with integrated pulsed amperometric detection 982(2002)237
- Determination of free L- and D-alanine in hydrolysed protein fertilisers by capillary electrophoresis 985(2003)463
- Study of tryptophan enantiomer binding to a teicoplanin-based stationary phase using the perturbation technique. Investigation of the role of sodium perchlorate in solute retention and enantioselectivity 986(2003)45
- Comparison of monomeric and polymeric chiral stationary phases 987(2003)111
- Characterization of a novel diol column for high-performance liquid chromatography 987(2003)119
- Quantitation of amino acids and amines in the same matrix by high-performance liquid chromatography, either simultaneously or separately 987(2003)291
- New aspects of the simultaneous analysis of amino acids and amines as their *o*-phthalaldehyde derivatives by high-performance liquid chromatography. Analysis of wine, beer and vinegar 987(2003)311
- Enantiomer separation of *N*-protected amino acids by non-aqueous capillary electrophoresis and high-performance liquid chromatography with *tert*-butyl carbamoylated quinine in either the background electrolyte or the stationary phase 987(2003)421
- Capillary electrophoretic separation of enantiomers in a high-pH background electrolyte by means of the single-isomer chiral resolving agent octa(6-*O*-sulfo)- γ -cyclodextrin 987(2003)459
- Preparative-scale isoelectric trapping enantiomer separations 989(2003)73
- Open tubular capillary electrochromatography of underivatized amino acids using Rh(III) tetrakis(phenoxyphenyl)porphyrinate as wall modifier 990(2003)159
- New ligand exchange chiral stationary phase for the liquid chromatographic resolution of α - and β -amino acids 992(2003)47
- Development of a capillary electrophoretic method for the analysis of amino acids containing tablets 993(2003)165
- Mixed chiral stationary phase containing modified resorcinarene and β -cyclodextrin selectors bonded to a polysiloxane for enantioselective gas chromatography 994(2003)127
- Use of disposable gold working electrodes for cation chromatography–integrated pulsed amperometric detection of sulfur-containing amino acids 997(2003)73
- Some factors affecting separation and detection of amino acids by high-performance anion-exchange chromatography with integrated pulsed amperometric detection 997(2003)145

Off-line elimination of carbohydrates for amino acid analysis of samples with high carbohydrate content by ion-exchange chromatography 997(2003)155

Design of chiral monochloro-*s*-triazine reagents for the liquid chromatographic separation of amino acid enantiomers 998(2003)73

Solvent extraction of organic molecules of exobiological interest for in situ analysis of the Martian soil 999(2003)165

Evaluation of methods for measuring amino acid hydrophobicities and interactions 1000(2003)637

Amino acids, Dns derivatives

Use of full-column imaging capillary isoelectric focusing for the rapid determination of the operating conditions in the preparative-scale continuous free-flow isoelectric focusing separation of enantiomers 960(2002)241

Miniaturization of batch- and flow-type chemiluminescence detectors in capillary electrophoresis 971(2002)255

Comparison of enantioseparations using Cu(II) complexes with L-amino acid amides as chiral selectors or chiral stationary phases by capillary electrophoresis, capillary electrochromatography and micro liquid chromatography 990(2003)75

Amino alcohols

see also β -Blockers

Liquid chromatographic resolution of racemic amines, amino alcohols and related compounds on a chiral crown ether stationary phase 959(2002)75

Combination of liquid-phase microextraction and on-column stacking for trace analysis of amino alcohols by capillary electrophoresis 979(2002)163

Aminoalkanephosphonic acids

Simultaneous analysis of biologically active aminoalkanephosphonic acids 998(2003)183

Aminocyclopropanecarboxylic acid

Extraction and quantitative analysis of 1-aminocyclopropane-1-carboxylic acid in plant tissue by gas chromatography coupled to mass spectrometry 993(2003)79

Aminodimethylfluoro[3,2-*e*]imidazo[4,5-*b*]pyridine

Blue Chitin columns for the extraction of heterocyclic amines from cooked meat 977(2002)97

Aminofluorescein

Analysis of aminofluorescein–fatty acid derivatives by capillary electrophoresis with laser-induced fluorescence detection at the attomole level: application to mycobacterial fatty acids 973(2002)203

Aminomethylphosphonic acid

Analysis of glyphosate, glufosinate and aminomethylphosphonic acid by capillary electrophoresis with indirect fluorescence detection 959(2002)309

Condensation nucleation light scattering detection with ion chromatography for direct determination of glyphosate and its metabolite in water 989(2003)231

2-Amino-2-oxazolines

Determination of pKa values of 2-amino-2-oxazolines by capillary electrophoresis 984(2003)253

Aminophosphinic acids

Simultaneous analysis of biologically active aminoalkanephosphonic acids 998(2003)183

Aminophosphonic acids

Separation of aromatic aminophosphonic acid enantiomers by capillary electrophoresis with the application of cyclodextrins 979(2002)115

Simultaneous analysis of biologically active aminoalkanephosphonic acids 998(2003)183

Aminophthalhydrazide

Determination of carbohydrates as their 3-aminophthalhydrazide derivatives by capillary zone electrophoresis with on-line chemiluminescence detection 992(2003)181

Aminopyrenetrisulfonate

Analysis of chitin oligosaccharides by capillary electrophoresis with laser-induced fluorescence 979(2002)431

Aminopyridines

Electromigration dispersion in capillary zone electrophoresis. Experimental validation of use of the Haarhoff–Van der Linde function 959(2002)229

Aminopyrimidine

Increase of sample load without peak deterioration by careful selection of electrolyte in capillary zone electrophoresis 953(2002)227

Aminosalicyclic acid

Applicability of mass spectrometry to detect coeluting impurities in high-performance liquid chromatography 971(2002)159

Amitraz

Determination of acaricides in honey by high-performance liquid chromatography with photodiode array detection 954(2002)173

Ammonium

Determination of inorganic cations and ammonium in environmental waters by ion chromatography with a high-capacity cation-exchange column 956(2002)181

Ammonium hydrogencarbonate

Ammonium hydrogencarbonate, an excellent buffer for the analysis of basic drugs by liquid chromatography–mass spectrometry at high pH 987(2003)211

Ammonium hydroxide

Ion chromatographic analysis of anions in ammonium hydroxide, hydrofluoric acid, and slurries, used in semiconductor processing 956(2002)109

Ammonium ions

Selective determination of ammonium ions by high-speed ion-exclusion chromatography on a weakly basic anion-exchange resin column 997(2003)191

Amoxicillin

Determination of amoxicillin in human plasma by direct injection and coupled-column high-performance liquid chromatography 987(2003)235

Amphetamines

Automated headspace solid-phase dynamic extraction for the determination of amphetamines and synthetic designer drugs in hair samples 958(2002)231

Preparation of immunoaffinity columns for direct enantiomeric separation of amphetamine and/or methamphetamine 967(2002)191

Analysis of illicit amphetamine seizures by capillary zone electrophoresis 979(2002)345

Liquid-phase microextraction of hydrophilic drugs by carrier-mediated transport 998(2003)61

Amylase

Evaluation of *n*-valeraldehyde modified chitosan as a matrix for hydrophobic interaction chromatography 952(2002)79

Amyloid- β peptide

Nanoscale liquid chromatography and capillary electrophoresis coupled to electrospray mass spectrometry for the detection of amyloid- β peptide related to Alzheimer's disease 974(2002)135

Anaesthetics

The determination of bromide in a local anaesthetic hydrochloride by capillary electrophoresis using direct UV detection 977(2002)265

Enflurane as an internal standard in monitoring halogenated volatile anaesthetics by headspace gas chromatography–mass spectrometry 985(2003)259

Anatoxins

Analysis of anatoxin-a in aqueous samples by solid-phase microextraction coupled to high-performance liquid chromatography with fluorescence detection and on-fiber derivatization 963(2002)295

Analysis of tropane and related alkaloids (Review) 978(2002)1

Androgens

Analysis on residues of estrogens, gestagens and androgens in kidney fat and meat with gas chromatography–tandem mass spectrometry 970(2002)235

Andrographolide

Separation of andrographolide and neoandrographolide from the leaves of *Andrographis paniculata* using high-speed counter-current chromatography 984(2003)147

Androsterones

Identification of dehydroepiandrosterone metabolites formed from human prostate homogenate using liquid chromatography–mass spectrometry and gas chromatography–mass spectrometry 961(2002)97

Angiotensin-converting enzyme

Kinetic study of angiotensin converting enzyme activity by capillary electrophoresis after in-line reaction at the capillary inlet 986(2003)303

Angiotensin-converting enzyme inhibitors

Optimisation by experimental design of a capillary electrophoretic method for the separation of several inhibitors of angiotensin-converting enzyme using alkylsulphonates 978(2002)231

Angiotensin receptor antagonists

Optimization and validation of a micellar electrokinetic chromatographic method for the analysis of several angiotensin-II-receptor antagonists 984(2003)135

Optimization and validation of a capillary zone electrophoretic method for the analysis of several angiotensin-II-receptor antagonists 979(2002)323

Angiotensins

Advantages and limitations of coupling isotachopheresis and comprehensive isotachopheresis–capillary electrophoresis to time-of-flight mass spectrometry 992(2003)169

Anilines

Organic analysis by ion chromatography. 1. Determination of aromatic amines and aromatic diisocyanates by cation-exchange chromatography with amperometric detection 956(2002)215

Binding of environmental pollutants to the corn protein zein studied by high-performance liquid chromatography 987(2003)403

Mixed-mode electrokinetic chromatography of aromatic bases with two pseudo-stationary phases and pH control 997(2003)207

Anilino-naphthalenesulfonic acid

Indirect capillary electrophoresis with 8-anilino-1-naphthalenesulfonic acid as a fluorescence probe for determining the apparent stability constant of an inclusion complex formed between a cyclodextrin and a solute 987(2003)485

Anisoles

Simultaneous determination of “earthy-musty” odorous haloanisoles and their corresponding halophenols in water samples using solid-phase microextraction coupled to gas chromatography with electron-capture detection 999(2003)135

Anthelmintics

Development and validation of a liquid chromatographic–electrospray tandem mass spectrometric multiresidue method for anthelmintics in milk 976(2002)181

Anthocyanins

Rapid characterization of anthocyanins in red raspberry fruit by high-performance liquid chromatography coupled to single quadrupole mass spectrometry 966(2002)63

Development and validation of a capillary zone electrophoresis method for the quantitative determination of anthocyanins in wine 990(2003)247

Anthracyclines

Determination of free and liposome-associated daunorubicin and daunorubicinol in plasma by capillary electrophoresis 979(2002)379

Anthranilic acid

High-performance liquid chromatography assay for 1-deoxy-D-xylulose 5-phosphate synthase activity using fluorescence detection 986(2003)291

Anthraquinones

Analysis of anthraquinones in *Rubia tinctorum* L. by liquid chromatography coupled with diode-array UV and mass spectrometric detection 978(2002)119

Anthrolylnitriles

Determination of thyroid hormones in pharmaceutical preparations, after derivatization with 9-anthrolylnitrile, by high-performance liquid chromatography with fluorescence detection 958(2002)299

Determination of T-2 toxin in cereal grains by liquid chromatography with fluorescence detection after immunoaffinity column clean-up and derivatization with 1-anthrolylnitrile 989(2003)257

Antibacterials

Liquid chromatographic–mass spectrometric methods for analyzing antibiotic and antibacterial agents in animal food products (Review) 974(2002)53

Antibiotics

Quantification of veterinary antibiotics (sulfonamides and trimethoprim) in animal manure by liquid chromatography–mass spectrometry 952(2002)111

Multiresidue determination of (fluoro)quinolone antibiotics in swine kidney using liquid chromatography–tandem mass spectrometry 952(2002)121

Chemiluminescence detection coupled to high-performance frontal analysis for the determination of unbound concentrations of drugs in protein binding equilibrium 952(2002)131

Analysis of spectinomycin by liquid chromatography with pulsed electrochemical detection 953(2002)123

Initial study of using a laminar fluid diffusion interface for sample preparation in high-performance liquid chromatography 954(2002)33

Residue analysis of macrolides in poultry muscle by liquid chromatography–electrospray mass spectrometry 959(2002)131

Determination and pharmacokinetic study of meropenem in rat bile using on-line microdialysis and liquid chromatography 961(2002)119

Liquid chromatographic–mass spectrometric methods for analyzing antibiotic and antibacterial agents in animal food products (Review) 974(2002)53

Liquid chromatography–ion trap tandem mass spectrometry for the characterization of polypeptide antibiotics of the colistin series in commercial samples 976(2002)65

Validation of a liquid chromatography–tandem mass spectrometry method for the simultaneous quantification of 11 (fluoro)quinolone antibiotics in swine kidney 976(2002)195

Determination of cefotaxime and desacetylcefotaxime in cerebrospinal fluid by solid-phase extraction and high-performance liquid chromatography 976(2002)249

Application of liquid chromatography–electrospray ionization tandem mass spectrometry to the detection of 10 sulfonamides in honey 977(2002)77

Capillary electrophoresis study of outer membrane proteins of *Pseudomonas* strains upon antibiotic treatment 979(2002)277

Application of micellar electrokinetic chromatography to the determination of sulfamonomycin in oral pharmaceutical preparations 979(2002)315

Determination of free and liposome-associated daunorubicin and daunorubicinol in plasma by capillary electrophoresis 979(2002)379

Cholesterol bonded phase as a separation medium in liquid chromatography. Evaluation of properties and applications 986(2003)253

Determination of enrofloxacin and its metabolite ciprofloxacin in goat milk by high-performance liquid chromatography with diode-array detection. Optimization and validation 987(2003)221

Validation of a high-performance liquid chromatography method for the determination of oxytetracycline, tetracycline, chlortetracycline and doxycycline in bovine milk and muscle 987(2003)227

Determination of amoxicillin in human plasma by direct injection and coupled-column high-performance liquid chromatography 987(2003)235

Quantitation of the enantiomers of ofloxacin by capillary electrophoresis in the parts per billion concentration range for in vitro drug absorption studies 988(2003)135

Use of short-end injection capillary packed with a glycopeptide antibiotic stationary phase in electrochromatography and capillary liquid chromatography for the enantiomeric separation of hydroxy acids 990(2003)143

Development of a capillary zone electrophoresis–electrospray ionisation tandem mass spectrometry method for the analysis of fluoroquinolone antibiotics 990(2003)259

Determination of the antibiotic chloramphenicol in meat and seafood products by liquid chromatography–electrospray ionization tandem mass spectrometry 994(2003)75

Development and validation of an improved method for the analysis of vancomycin by liquid chromatography. Selectivity of reversed-phase columns towards vancomycin components 996(2003)115

Analytical method for the determination of the aminoglycoside gentamicin in hospital wastewater via LC–electrospray-tandem MS 1000(2003)583

Antibodies

see also Monoclonal antibodies

Evaluation of protein-A chromatography media 989(2003)139

Antidepressants

Liquid-phase microextraction combined with capillary electrophoresis, a promising tool for the determination of chiral drugs in biological matrices 963(2002)303

Enantioseparation of basic pharmaceutical compounds by capillary electrophoresis using sulfated cyclodextrins. Application to E-6006, a novel antidepressant 990(2003)91

Antifouling compounds

Analysis of antifouling biocides Irgarol 1051 and Sea Nine 211 in environmental water samples using solid-phase microextraction and gas chromatography 952(2002)215

Aquatic phototransformation study of the antifouling agent Sea-Nine 211: identification of byproducts and the reaction pathway by gas chromatography–mass spectroscopy 959(2002)215

Antihistaminic compounds

Control of electroosmotic flow in zirconia-coated capillaries 971(2002)199

Antioxidants

Capillary electrophoretic separation of phenolic diterpenes from rosemary 953(2002)251

Cation-exchange micropreparative separation of galloylated and non-galloylated sulphur conjugated catechins 973(2002)229

Separation of polyphenolic compounds extracted from plant matrices using capillary electrophoresis 990(2003)225

Analysis of the active components of silymarin 990(2003)239

Apigenin

Identification of flavone aglycones and glycosides in soybean pods by liquid chromatography–tandem mass spectrometry 991(2003)61

Apovincaminic acid

Lipophilicity of vincopetine and related compounds characterized by reversed-phase thin-layer chromatography 996(2003)195

Arginine

Structural requirements for conserved Arg⁵² residue for interaction of the human immunodeficiency virus type 1 trans-activation responsive element with trans-activator of transcription protein (49–57). Capillary electrophoresis mobility shift assay 968(2002)211

(+)-Aristolochene

Monitoring and fast detection of mycotoxin-producing fungi based on headspace solid-phase microextraction and headspace sorptive extraction of the volatile metabolites 985(2003)127

Aroma compounds

Headspace solid-phase microextraction analysis of 3-alkyl-2-methoxypyrazines in wines 953(2002)1

Optimisation of headspace solid-phase microextraction for analysis of aromatic compounds in vinegar 953(2002)7

Headspace solid-phase microextraction of higher fatty acid ethyl esters in white rum aroma 954(2002)51

Monitoring volatile compounds during dry-cured ham ripening by solid-phase microextraction coupled to a new direct-extraction device 963(2002)83

Determination of minor and trace volatile compounds in wine by solid-phase extraction and gas chromatography with mass spectrometric detection 966(2002)167

Headspace solid-phase microextraction analysis of aroma compounds in vinegar. Validation study 967(2002)261

Use of inverse gas chromatography to determine thermodynamic parameters of aroma–starch interactions 969(2002)9

Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3

Aroma compound analysis of *Piper nigrum* and *Piper guineense* essential oils from Cameroon using solid-phase microextraction–gas chromatography, solid-phase microextraction–gas chromatography–mass spectrometry and olfactometry 976(2002)265

Flavour analysis of Greek white wine by solid-phase microextraction–capillary gas chromatography–mass spectrometry 985(2003)233

Headspace gas chromatography–mass spectrometry of volatile compounds in murici (*Byrsonima crassifolia* L. Rich) 985(2003)297

Determination of stale-flavor carbonyl compounds in beer by stir bar sorptive extraction with in-situ derivatization and thermal desorption–gas chromatography–mass spectrometry 986(2003)101

Changes in the order of elution of some organic compounds in high-resolution gas chromatography on polar columns depending on the injection method and water content in the sample 992(2003)199

Thermodynamic study of two different chewing-gum bases by inverse gas chromatography 996(2003)189

Identification of aroma active compounds in orange essence oil using gas chromatography–olfactometry and gas chromatography–mass spectrometry 998(2003)201

Arsenic

Simultaneous capillary electrophoretic separation and detection of P(V) and As(V) as heteropoly-blue complexes 966(2002)213

Miniaturised isotachophoretic analysis of inorganic arsenic speciation using a planar polymer chip with integrated conductivity detection 990(2003)325

Arylcarbinols

Comparison of Chirasil-DEX CB as gas chromatographic and ULMO as liquid chromatographic chiral stationary phase for enantioseparation of aryl- and heteroarylcarbinols 992(2003)151

Arylglycine amides

Fast enantioseparation of arylglycine amides by capillary electrophoresis with highly sulfated- β -cyclodextrin as a chiral selector 998(2003)221

2-Aryloxyalkanoic acid

Evaluation of a penicillin G acylase-based chiral stationary phase towards a series of 2-aryloxyalkanoic acids, isosteric analogs and 2-arylpropionic acids 958(2002)131

2-Arylpropionic acid

Evaluation of a penicillin G acylase-based chiral stationary phase towards a series of 2-aryloxyalkanoic acids, isosteric analogs and 2-arylpropionic acids 958(2002)131

Ascorbate

Ginkgo biloba extract preserves pyruvate and enhances ascorbate in the cortex of gerbils during focal cerebral ischemia. A microdialysis–liquid chromatography study 985(2003)387

Ascorbic acid

see also Vitamins

Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77

Carbon fiber bundle–Au–Hg dual-electrode detection for capillary electrophoresis 971(2002)217

Column chromatographic separation of uranium(VI) and other elements using poly(dibenzo-18-crown-6) and ascorbic acid medium 983(2003)277

Aspartic acid

Purification of the specific immunoglobulin G₁ by immobilized metal ion affinity chromatography using nickel complexes of chelating porous and nonporous polymeric sorbents based on poly(methacrylic esters). Effect of polymer structure 954(2002)115

Asphaltenes

Characterization of crude oils by inverse gas chromatography 969(2002)207

Asulam

Capillary zone electrophoresis in wide bore capillary tubes with fiber-coupled diode array detection 990(2003)23

Atrazine

Determination of atrazine and four organophosphorus pesticides in ground water using solid phase microextraction (SPME) followed by gas chromatography with selected-ion monitoring 972(2002)183

Combination of supported liquid membrane and solid-phase extraction for sample pretreatment of triazine herbicides in juice prior to capillary electrophoresis determination 975(2002)219

Atromentic acid

Simple method for reversed-phase high-performance liquid chromatographic analysis of fungal pigments in fruit-bodies of Boletales (Fungi) 964(2002)129

Atropine

Use of a novel cation-exchange restricted-access material for automated sample clean-up prior to the determination of basic drugs in plasma by liquid chromatography 975(2002)145

Auxin

Comprehensive chemical derivatization for gas chromatography–mass spectrometry-based multi-targeted profiling of the major phytohormones 993(2003)89

Avidin

Affinity partitioning for membrane purification exploiting the biotin–NeutrAvidin interaction. Model study of mixed liposomes and membranes 971(2002)117

Determination of biotin on a protein by quantitative sodium dodecyl sulfate–capillary gel electrophoresis of monomeric avidin 994(2003)213

Avoparcin

New sample preparation technique for the determination of avoparcin in pressurized hot water extracts from kidney samples 954(2002)41

Azadirachtin

Determination of abamectin and azadirachtin residues in orange samples by liquid chromatography–electrospray tandem mass spectrometry 992(2003)133

Azaspiracids

Comparison of solid-phase extraction methods for the determination of azaspiracids in shellfish by liquid chromatography–electrospray mass spectrometry 963(2002)353

Azimilide

Applicability of mass spectrometry to detect coeluting impurities in high-performance liquid chromatography 971(2002)159

Azo dyes

Harmful azo colorants in leather. Determination based on their cleavage and extraction of corresponding carcinogenic aromatic amines using modern extraction techniques 955(2002)215

Optimization of the extraction of azo colorants used in toy products 963(2002)427

Determination of aromatic amines formed from azo colorants in toy products 976(2002)309

Process monitoring of anaerobic azo dye degradation by high-performance liquid chromatography–diode array detection continuously coupled to membrane filtration sampling modules 987(2003)395

Azoles

Use of high-performance liquid chromatographic and microbiological analyses for evaluating the presence or absence of active metabolites of the antifungal posaconazole in human plasma 987(2003)243

B**Baclofen**

Capillary electrophoresis of baclofen with argon-ion laser-induced fluorescence detection 972(2002)289

BAPTA

Reversed-phase liquid chromatography of biologically active lipophilic chelators. II. Improvement of chromatographic performance and selected applications in biochemical analysis 987(2003)169

Barbiturates

Rapid identification and quantitation of compounds with forensic interest using fast liquid chromatography–ion trap mass spectrometry and library searching 994(2003)93

Basic compounds

Analysis and critical comparison of the reversed-phase and ion-exchange contributions to retention on polybutadiene coated zirconia and octadecyl silane bonded silica phases 996(2003)13

Basic drugs

see also Drugs

Electroosmotic flow controllable coating on a capillary surface by a sol–gel process for capillary electrophoresis 952(2002)255

Colomonic acid: a novel chiral selector for capillary electrophoresis of basic drugs 962(2002)221

Characterisation of reversed-phase stationary phases for the liquid chromatographic analysis of basic pharmaceuticals by thermodynamic data 964(2002)67

Sample matrix influence on the choice of background electrolyte for the analysis of bases with capillary zone electrophoresis 979(2002)11

Peak compression effects in capillary electrochromatography of basic drug substances using a strong cation-exchanger 979(2002)335

Ammonium hydrogencarbonate, an excellent buffer for the analysis of basic drugs by liquid chromatography–mass spectrometry at high pH 987(2003)211

Enantioseparation of basic pharmaceutical compounds by capillary electrophoresis using sulfated cyclodextrins. Application to E-6006, a novel antidepressant 990(2003)91

Belladonna alkaloids

Preparation of a molecularly imprinted polymer for the solid-phase extraction of scopolamine with hyoscyamine as a dummy template molecule 987(2003)103

Benzalkonium chlorides

Development and validation of a capillary zone electrophoresis method for the determination of benzalkonium chlorides in ophthalmic solutions 976(2002)207

Benzanilide

Role of buffer concentration and applied voltage in obtaining a good separation in planar electrochromatography 983(2003)247

Benzenes

Temperature effects on the retention of *n*-alkanes and arenes in helium–squalane gas–liquid chromatography. Experiment and molecular simulation 954(2002)181

Adsorption equilibria of butyl- and amylbenzene on monolithic silica-based columns 957(2002)111

Study of polar and nonpolar substituted benzenes and aromatic isomers on carbon-coated zirconia and alkyl bonded phases 958(2002)121

Simple off-line flash pyrolysis procedure with in situ silylation for the analysis of hydroxybenzenes in humic acids and coals 967(2002)235

Inverse gas chromatographic measurement of solubility parameters in liquid crystalline systems 964(2002)199

Influence of chromatographic conditions on separation in comprehensive gas chromatography 962(2002)135

Experimental adsorption isotherms based on inverse gas chromatography 969(2002)81

Characterization and source identification of hydrocarbons in water samples using multiple analytical techniques 971(2002)173

Role of the retaining precolumn in large-volume on-column injections of volatiles to gas chromatography 975(2002)95

Use of experimental design for the purge-and-trap-gas chromatography–mass spectrometry determination of methyl *tert*-butyl ether, *tert*-butyl alcohol and BTEX in groundwater at trace level 975(2002)113

Determination of volatile organic compounds in ambient air. Comparison of methods 976(2002)369

Analytical characteristics of the determination of benzene, toluene, ethylbenzene and xylenes in water by headspace solvent microextraction 977(2002)143

Headspace microdrop analysis—an alternative test method for gasoline diluent and benzene, toluene, ethylbenzene and xylenes in used engine oils 983(2003)205

Determination of siloxane–water partition coefficients by capillary extraction–high-resolution gas chromatography. Study of aromatic solvents 985(2003)39

Capillary extractors for “negligible depletion” sampling of benzene, toluene, ethylbenzene and xylenes by in-tube solid-phase microextraction 985(2003)85

In-tube solid-phase microextraction sampler for long-term storage 985(2003)93

Trace analysis of benzene, toluene, ethylbenzene and xylene isomers in environmental samples by low-pressure gas chromatography–ion trap mass spectrometry 985(2003)191

Competitive extraction of multi-component contaminants in water by Carboxen–polydimethylsiloxane fiber during solid-phase microextraction 988(2003)177

Simultaneous determination of methyl *tert*-butyl ether and its degradation products, other gasoline oxygenates and benzene, toluene, ethylbenzene and xylenes in Catalonian groundwater by purge-and-trap-gas chromatography–mass spectrometry 995(2003)171

On-site calibration method based on stepwise solid-phase microextraction 999(2003)43

Benzenecarboxylic acids

Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77

Ion-exclusion chromatographic behavior of aliphatic carboxylic acids and benzenecarboxylic acids on a sulfonated styrene–divinylbenzene co-polymer resin column with sulfuric acid containing various alcohols as eluent 997(2003)95

Separation of aliphatic carboxylic acids and benzenecarboxylic acids by ion-exclusion chromatography with various cation-exchange resin columns and sulfuric acid as eluent 997(2003)117

Benzimidazoles

Determination of pesticide residues in coconut water by liquid–liquid extraction and gas chromatography with electron-capture plus thermionic specific detection and solid-phase extraction and high-performance liquid chromatography with ultraviolet detection 957(2002)201

Liquid chromatographic–tandem mass spectrometric determination of selected sulphonamides in milk 960(2002)121

Development and validation of a liquid chromatographic–electrospray tandem mass spectrometric multiresidue method for anthelmintics in milk 976(2002)181

1,2-Benzisothiazol-3(2H)-ones

Lipophilicity of a series of 1,2-benzisothiazol-3(2H)-ones determined by reversed-phase thin-layer chromatography 952(2002)295

Benzodiazepines

Sensitive method for the detection of 22 benzodiazepines by gas chromatography–ion trap tandem mass spectrometry 954(2002)235

Bio-compatible in-tube solid-phase microextraction capillary for the direct extraction and high-performance liquid chromatographic determination of drugs in human serum 963(2002)325

Rapid identification and quantitation of compounds with forensic interest using fast liquid chromatography–ion trap mass spectrometry and library searching 994(2003)93

Benzoic acids

New conductivity detection response equation for anions eluted with fully and partially ionised eluents in non-suppressed ion chromatography 956(2002)59

Analysing fluorobenzoate tracers in groundwater samples using liquid chromatography–tandem mass spectrometry. A tool for leaching studies and hydrology 957(2002)11

Rapid screening of pK_a values of pharmaceuticals by pressure-assisted capillary electrophoresis combined with short-end injection 979(2002)369

Role of buffer concentration and applied voltage in obtaining a good separation in planar electrochromatography 983(2003)247

Adduct formation in electrospray ionization mass spectrometry. II. Benzoic acid derivatives 985(2003)531

Advances in methodology for the validation of methods according to the International Organization for Standardization. Application to the determination of benzoic and sorbic acids in soft drinks by high-performance liquid chromatography 992(2003)11

Comparing micellar electrokinetic chromatography and microemulsion electrokinetic chromatography for the analysis of preservatives in pharmaceutical and cosmetic products 993(2003)153

Ion-exclusion chromatography with conductimetric detection of aliphatic carboxylic acids on a weakly acidic cation-exchange resin by elution with benzoic acid– β -cyclodextrin 997(2003)127

Benzophenones

Determination of water-soluble UV-filters in sunscreen sprays by liquid chromatography 977(2002)277

Determination of benzophenones in a cosmetic matrix by supercritical fluid extraction and capillary electrophoresis 987(2003)269

Benzophenylurea

Determination of pesticide residues in coconut water by liquid–liquid extraction and gas chromatography with electron-capture plus thermionic specific detection and solid-phase extraction and high-performance liquid chromatography with ultraviolet detection 957(2002)201

Benzoxycarbonylglycyl-proline

Chiral separation of amines with *N*-benzoxycarbonylglycyl-*L*-proline as selector in non-aqueous capillary electrophoresis using methanol and 1,2-dichloroethane in the background electrolyte 984(2003)261

Benzoyl chloride

Determination of major phenolic compounds in water by reversed-phase liquid chromatography after pre-column derivatization with benzoyl chloride 988(2003)145

Benzylsuccinic acid

Determination of benzylsuccinic acid in gasoline-contaminated groundwater by solid-phase extraction coupled with gas chromatography–mass spectrometry 953(2002)215

Berberine

Simultaneous determination of berberine in rat blood, liver and bile using microdialysis coupled to high-performance liquid chromatography 961(2002)125

 β -Adrenergic agonists

Potentiometric detection of exogenic beta-adrenergic substances in liquid chromatography 973(2002)85

 β -Adrenergic blockers

Potentiometric detection of exogenic beta-adrenergic substances in liquid chromatography 973(2002)85

 β -Agonists

Extraction of clenbuterol from calf urine using a molecularly imprinted polymer followed by quantitation by high-performance liquid chromatography with UV detection 975(2002)157

β-Blockers

Effect of the counter-anion type and concentration on the liquid chromatography retention of β-blockers 964(2002)179

Combination of liquid-phase microextraction and on-column stacking for trace analysis of amino alcohols by capillary electrophoresis 979(2002)163

Potential of formamide and *N*-methylformamide in nonaqueous capillary electrophoresis coupled to electrospray ionization mass spectrometry. Application to the analysis of β-blockers 979(2002)389

Erratum to "Effect of the counter-anion type and concentration on the liquid chromatography retention of β-blockers" [J. Chromatogr. A, 964 (2002) 179–187] 982(2002)313

Mathematical representation of electrophoretic mobility of basic drugs in ternary solvent buffers in capillary zone electrophoresis 994(2003)191

pH dependence of the hydrophobicity of β-blocker amine compounds measured by counter-current chromatography 995(2003)55

Betahistine dihydrochloride

Evaluation of a sol-gel derived carbon composite electrode as an amperometric detector for capillary electrophoresis 991(2003)109

Biflavones

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Bilobalide

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Development and validation of a gas chromatographic–mass spectrometric method for simultaneous identification and quantification of marker compounds including bilobalide, ginkgolides and flavonoids in *Ginkgo biloba* L. extract and pharmaceutical preparations 986(2003)121

1,1'-Bi-2-naphthol

Comparative study on the enantiomer separation of 1,1'-binaphthyl-2,2'-diyl hydrogenphosphate and 1,1'-bi-2-naphthol by liquid chromatography and capillary electrophoresis using single and combined chiral selector systems 977(2002)225

1'-Binaphthyl-2,2'-diyl hydrogenphosphate

Comparative study on the enantiomer separation of 1,1'-binaphthyl-2,2'-diyl hydrogenphosphate and 1,1'-bi-2-naphthol by liquid chromatography and capillary electrophoresis using single and combined chiral selector systems 977(2002)225

Biogenic amines

see also Amines and Catecholamines

Determination of biogenic amines as dansyl derivatives in alcoholic beverages by high-performance liquid chromatography with fluorimetric detection and characterization of the dansylated amines by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 996(2003)103

Novel cation-exchange column for the separation of hydrophobic and/or polyvalent amines 997(2003)199

Determination of biogenic amines by 3-(2-furoyl)quinoline-2-carboxaldehyde and capillary electrophoresis with laser-induced fluorescence detection 998(2003)213

Ion-pair high-performance liquid chromatographic determination of biogenic amines and polyamines in wine and other alcoholic beverages 998(2003)235

Biotin

Affinity partitioning for membrane purification exploiting the biotin–NeutrAvidin interaction. Model study of mixed liposomes and membranes 971(2002)117

Determination of biotin on a protein by quantitative sodium dodecyl sulfate–capillary gel electrophoresis of monomeric avidin 994(2003)213

Biphenyl

Monolithic silica column for in-tube solid-phase microextraction coupled to high-performance liquid chromatography 985(2003)351

Bis(aminophenoxyethane)tetraacetic acid

Reversed-phase liquid chromatography of biologically active lipophilic chelators. II. Improvement of chromatographic performance and selected applications in biochemical analysis 987(2003)169

Bis(2-chloroethyl) sulfide

Application of headspace solid-phase microextraction and gas chromatography–mass spectrometry for detection of the chemical warfare agent bis(2-chloroethyl) sulfide in soil 971(2002)185

Bis(diisopropylaminoethyl)disulfide

Detection of VX contamination in soil through solid-phase microextraction sampling and gas chromatography/mass spectrometry of the VX degradation product bis(diisopropylaminoethyl)disulfide 992(2003)1

Bis(2-ethylhexyl) sodium sulfosuccinate

Separation and simultaneous determination of water-soluble and fat-soluble vitamins by electrokinetic capillary chromatography 953(2002)257

Rapid estimation of octanol–water partition coefficients using synthesized vesicles in electrokinetic chromatography 962(2002)207

Bis(hydroxyphenyl)methane

Pyrolysis–gas chromatography–mass spectrometry of cured phenolic resins 993(2003)131

Bisphenol A

Determination of toxic compounds in paper-recycling process waters by gas chromatography–mass spectrometry and liquid chromatography–mass spectrometry 963(2002)265

Determination of bisphenol-type contaminants from food packaging materials in aqueous foods by solid-phase microextraction–high-performance liquid chromatography 963(2002)375

Separation and on-line concentration of bisphenol A and alkylphenols by micellar electrokinetic chromatography with cationic surfactant 979(2002)425

On-column concentration of bisphenol A with one-step removal of humic acids in water 987(2003)389

Trace analysis of technical nonylphenol, bisphenol A and 17 α -ethinylestradiol in wastewater using solid-phase microextraction and gas chromatography–mass spectrometry 988(2003)41

Bisphenol A dimethacrylate, ethoxylated

Determination of ethoxylated bisphenol A dimethacrylate monomers in dental composites by micellar electrokinetic chromatography 990(2003)231

Bisphenol A polycarbonate

Characterisation of the surface Lewis acid–base properties of the components of pigmented, impact-modified, bisphenol A polycarbonate–poly(butylene terephthalate) blends by inverse gas chromatography–phase separation and phase preferences 969(2002)119

Bisphenol F

Determination of bisphenol-type contaminants from food packaging materials in aqueous foods by solid-phase microextraction–high-performance liquid chromatography 963(2002)375

Bisphosphonates

Comments on “Ion-exchange liquid chromatographic analysis of bisphosphonates by on-line post-column photochemical reaction and spectrophotometric detection” [J. Chromatogr. A 914 (2001) 105–110] 961(2002)293

Block copolymers

Liquid chromatography of polyethylene glycol mono- and diesters: functional macromolecules or block copolymers? 984(2003)29

Boranes

Exploration of the electrophoretic behaviour of borane cluster anions and of the capability of capillary electrophoresis to separate them chirally 984(2003)121

Borate

Potential binding of borate ions to mono- and oligonucleotides: a capillary electrophoresis investigation 979(2002)285

Botulinum toxins

Characterisation of botulinum toxins type A and B, by matrix-assisted laser desorption ionisation and electrospray mass spectrometry 970(2002)95

Bradykinin

Extension of separation range in capillary isoelectric focusing for resolving highly basic biomolecules 979(2002)271

Investigations of cyclophilin interactions with oligopeptides containing proline by affinity capillary electrophoresis 982(2002)275

Bromate

Determination of trace level bromate and perchlorate in drinking water by ion chromatography with an evaporative preconcentration technique 956(2002)85

US Environmental Protection Agency Method 326.0, a new method for monitoring inorganic oxyhalides and optimization of the postcolumn derivatization for the selective determination of trace levels of bromate 956(2002)93

Applications of ion chromatography with electrospray mass spectrometric detection to the determination of environmental contaminants in water 956(2002)245

Bromides

Optimization of artificial neural networks used for retention modelling in ion chromatography 973(2002)47

The determination of bromide in a local anaesthetic hydrochloride by capillary electrophoresis using direct UV detection 977(2002)265

Bromopropylate

Determination of acaricides in honey by high-performance liquid chromatography with photodiode array detection 954(2002)173

Bromopyridylazopropylsulfopropylaminophenol

Nonaqueous-based microchip separation of toxic metal ions using 2-(5-bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol 989(2003)311

Brucine

Determination of five toxic alkaloids in two common herbal medicines with capillary electrophoresis 973(2002)243

Butanamines

Automated headspace solid-phase dynamic extraction for the determination of amphetamines and synthetic designer drugs in hair samples 958(2002)231

Butanol

Determination of methyl *tert.*-butyl ether and *tert.*-butyl alcohol in seawater samples using purge-and-trap enrichment coupled to gas chromatography with atomic emission and mass spectrometric detection 999(2003)81

Butoxycarbonylamino fluoropropyl acetate

Gas chromatography with mass spectrometric, atomic emission and Fourier transform infrared spectroscopic detection as complementary analytical techniques for the identification of unknown impurities in pharmaceuticals 985(2003)275

Butylbenzene

Determination of uracil in 5-fluorouracil substance by high-performance liquid chromatography 994(2003)221

***tert.*-Butyl carbamoyl quinine**

Enantiomer separation of *N*-protected amino acids by non-aqueous capillary electrophoresis and high-performance liquid chromatography with *tert.*-butyl carbamoylated quinine in either the background electrolyte or the stationary phase 987(2003)421

Butyl fluorohydroxypropylcarbamate

Gas chromatography with mass spectrometric, atomic emission and Fourier transform infrared spectroscopic detection as complementary analytical techniques for the identification of unknown impurities in pharmaceuticals 985(2003)275

Butyltin

Rapid determination of butyltin species in water samples by multicapillary gas chromatography with atomic emission detection following headspace solid-phase microextraction 963(2002)195

Butyrolactones

Chiral separation of γ -butyrolactone derivatives by gas chromatography on 2,3-di-*O*-methyl-6-*O*-*tert.*-butyldimethylsilyl- β -cyclodextrin 985(2003)321

C**Cadmium**

High-performance liquid chromatographic separation and indirect fluorescence detection of thiols 972(2002)221

Caffeic acid

Simultaneous analysis of caffeic acid derivatives and alkamides in roots and extracts of *Echinacea purpurea* by high-performance liquid chromatography–photodiode array detection–electrospray mass spectrometry 986(2003)73

Caffeine

Determination of single component isotherms and affinity energy distribution by chromatography 988(2003)185

Calcium carbonate

Effects of dehydration on the apolar surface energetics of inorganic paper fillers 972(2002)241

Calcium oxide

Physicochemical measurements by the reversed-flow version of inverse gas chromatography (Review) 969(2002)3

Calycosin

Preparative isolation and purification of calycosin from *Astragalus membranaceus* Bge. var. *mongholicus* (Bge.) Hsiao by high-speed counter-current chromatography 962(2002)243

Calycosin glycoside

Preparative isolation and purification of two isoflavones from *Astragalus membranaceus* Bge. var. *mongholicus* (Bge.) Hsiao by high-speed counter-current chromatography 992(2003)193

Calystegine

Analysis of tropane and related alkaloids (Review) 978(2002)1

Camphor

Extraction of thymol, eucalyptol, menthol, and camphor residues from honey and beeswax. Determination by gas chromatography with flame ionization detection 954(2002)207

Cappuccino

Investigations of cyclophilin interactions with oligopeptides containing proline by affinity capillary electrophoresis 982(2002)275

Caproctamine

Determination of the dissociation constants (pK_a) of basic acetylcholinesterase inhibitors by reversed-phase liquid chromatography 958(2002)59

Carbamates

Study of the feasibility of focused microwave-assisted Soxhlet extraction of *N*-methylcarbamates from soil 953(2002)133

Separation and determination of emetine dithiocarbamate metal complexes by capillary electrophoresis with chemiluminescence detection of the tris(2,2'-bipyridine)–ruthenium(II) complex 958(2002)283

Gas and liquid chromatography of metal chelates of pentamethylene dithiocarbamate 973(2002)235

Determination of dithiocarbamate pesticides in occupational hygiene sampling devices using the isoctane method and comparison with an automatic thermal desorption (ATD) method 984(2003)81

Development of a gas chromatography–mass spectrometry method for the determination of household insecticides in indoor air 985(2003)147

Considerations on ultra trace analysis of carbamates in water samples 996(2003)133

Carbamazepine

Simultaneous determination of neutral and acidic pharmaceuticals in wastewater by high-performance liquid chromatography–post-column photochemically induced fluorimetry 993(2003)29

Carbapem antibiotics

Determination and pharmacokinetic study of meropenem in rat bile using on-line microdialysis and liquid chromatography 961(2002)119

Carbofuran

Comparison of solid-phase extraction and solid-phase microextraction for carbofuran in water analyzed by high-performance liquid chromatography–photodiode-array detection 963(2002)117

Carbohydrates

see also Cyclodextrins, Monosaccharides, Oligosaccharides, Polysaccharides, Saccharides and Sugars

Determination of etoposide phosphate intermediates by gradient liquid chromatography using postcolumn derivatization with cuprammonium hydroxide 952(2002)283

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Collection of α_1 -acid glycoprotein molecular species by capillary electrophoresis and the analysis of their molecular masses and carbohydrate chains. Basic studies on the analysis of glycoprotein glycoforms 958(2002)273

High-performance liquid chromatographic separation of carbohydrates on a stationary phase prepared from polystyrene-based resin and novel amines 961(2002)89

Simultaneous determination of amino acids and carbohydrates by anion-exchange chromatography with integrated pulsed amperometric detection 966(2002)89

Quantification of sugars and organic acids in hygroscopic pharmaceutical herbal dry extracts 968(2002)101

Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3

Simultaneous determination of carbohydrates and simmondsins in jojoba seed meal (*Simmondsia chinensis*) by gas chromatography 977(2002)257

Direct determination of free amino acids and sugars in green tea by anion-exchange chromatography with integrated pulsed amperometric detection 982(2002)237

Structural characterization by both positive and negative electrospray ion trap mass spectrometry of oligogalacturonates purified by high-performance anion-exchange chromatography 984(2003)185

Non-aqueous capillary electrophoresis of the positional isomers of a sulfated monosaccharide 987(2003)467

Characterisation of legumes by enzymatic hydrolysis, microdialysis sampling, and micro-high-performance anion-exchange chromatography with electrospray ionisation mass spectrometry 992(2003)67

Fractionation of starch hydrolysates into dextrans with narrow molecular mass distribution and their detection by high-performance anion-exchange chromatography with pulsed amperometric detection 992(2003)75

Determination of carbohydrates as their 3-aminophthalhydrazide derivatives by capillary zone electrophoresis with on-line chemiluminescence detection 992(2003)181

Off-line elimination of carbohydrates for amino acid analysis of samples with high carbohydrate content by ion-exchange chromatography 997(2003)155

β -Carboline alkaloids

High-performance liquid chromatographic, capillary electrophoretic and capillary electrophoretic–electrospray ionisation mass spectrometric analysis of selected alkaloid groups (Review) 967(2002)85

Carbon, activated

Micropore-free surface-activated carbon for the analysis of polychlorinated dibenzo-*p*-dioxins–dibenzofurans and non-*ortho*-substituted polychlorinated biphenyls in environmental samples 977(2002)155

Carbonate

On-line pH modification of carbonate eluents using an electrolytic potassium hydroxide generator for ion chromatography 957(2002)165

Determination of the solubility of inorganic salts by headspace gas chromatography 996(2003)157

Carbon dioxide

Thermodynamic and kinetic models for the extraction of essential oil from savory and polycyclic aromatic hydrocarbons from soil with hot (subcritical) water and supercritical CO₂ 975(2002)175

Anomalous effects of helium head pressure carbon dioxide in supercritical fluid chromatography and extraction 986(2003)129

Determination of carbon monoxide, methane and carbon dioxide in refinery hydrogen gases and air by gas chromatography 989(2003)277

Chemical compositional separation of styrene–methyl methacrylate copolymers using high-performance liquid chromatography with liquefied carbon dioxide as eluent 991(2003)197

Carbon monoxide

Determination of carbon monoxide, methane and carbon dioxide in refinery hydrogen gases and air by gas chromatography 989(2003)277

Carbon tetrachloride

Characterization of the interactions in polymer–filler systems by inverse gas chromatography 969(2002)255

Carbonyl compounds

see also Aldehydes, Ketones and Volatile organic compounds

Simultaneous modeling of the Kovats retention indices on OV-1 and SE-54 stationary phases using artificial neural networks 955(2002)273

Evaluation of headspace solid-phase microextraction for the analysis of volatile carbonyl compounds in spirits and alcoholic beverages 984(2003)89

Determination of *E*-2-nonenal by high-performance liquid chromatography with UV detection. Assay for the evaluation of beer ageing 985(2003)395

Determination of stale-flavor carbonyl compounds in beer by stir bar sorptive extraction with in-situ derivatization and thermal desorption–gas chromatography–mass spectrometry 986(2003)101

Carboxybenzoylquinolinecarboxaldehyde

Use of capillary electrophoresis and laser-induced fluorescence for attomole detection of amino acids 964(2002)243

Carboxyfluorescein succinimidyl ester

Capillary electrophoresis of baclofen with argon-ion laser-induced fluorescence detection 972(2002)289

Carboxyglutamic acid

High-performance liquid chromatography–mass spectrometry and electron-capture dissociation tandem mass spectrometry of osteocalcin. Determination of γ -carboxyglutamic acid residues 962(2002)95

Carboxylic acids

see also Fatty acids, Hydroxy acids and Organic acids

Qualitative analysis of some carboxylic acids by ion-exclusion chromatography with atmospheric pressure chemical ionization mass spectrometric detection 956(2002)201

Vacancy ion-exclusion chromatography of carboxylic acids on a weakly acidic cation-exchange resin 956(2002)209

Ion-pair reversed-phase liquid chromatography–electrospray mass spectrometry for the analysis of underivatized small peptides 957(2002)173

Retention of ionizable compounds in high-performance liquid chromatography. 14. Acid–base p*K* values in acetonitrile–water mobile phases 964(2002)55

On-line sample preconcentration in micellar electrokinetic chromatography using ion-pair reagents 979(2002)131

On-line sample preconcentration in micellar electrokinetic chromatography by sweeping with anionic–zwitterionic mixed micelles 985(2003)435

Influencing electroosmotic flow and selectivity in open tubular electrochromatography by tetrakis(pentafluorophenyl)porphyrin as capillary wall modifier 990(2003)111

Capillary electrophoretic separation of dicarboxylic acids in atmospheric aerosol particles 990(2003)133

Extraction and quantitative analysis of 1-aminocyclopropane-1-carboxylic acid in plant tissue by gas chromatography coupled to mass spectrometry 993(2003)79

Ion-exclusion chromatographic behavior of aliphatic carboxylic acids and benzenecarboxylic acids on a sulfonated styrene–divinylbenzene co-polymer resin column with sulfuric acid containing various alcohols as eluent 997(2003)95

Ion-exclusion chromatographic separations of C₁–C₆ aliphatic carboxylic acids on a sulfonated styrene–divinylbenzene co-polymer resin column with 5-methylhexanoic acid as eluent 997(2003)107

Separation of aliphatic carboxylic acids and benzenecarboxylic acids by ion-exclusion chromatography with various cation-exchange resin columns and sulfuric acid as eluent 997(2003)117

Ion-exclusion chromatography with conductimetric detection of aliphatic carboxylic acids on a weakly acidic cation-exchange resin by elution with benzoic acid– β -cyclodextrin 997(2003)127

Vacancy ion-exclusion chromatography of aromatic carboxylic acids on a weakly acidic cation-exchange resin 997(2003)139

Ion chromatographic identification and quantification of glycol degradation products 997(2003)279

Solvent extraction of organic molecules of exobiological interest for in situ analysis of the Martian soil 999(2003)165

Carboxymethylcellulose

Flow field-flow fractionation and characterization of ionic and neutral polysaccharides of vegetable and microbial origin 967(2002)219

Carnitine

Determination of carnitine and acylcarnitines in urine by high-performance liquid chromatography–electrospray ionization ion trap tandem mass spectrometry 984(2003)203

Carnosic acid

Capillary electrophoretic separation of phenolic diterpenes from rosemary 953(2002)251

Quantitative determination of phenolic diterpenes in rosemary extracts. Aspects of accurate quantification 995(2003)119

Carnosol

Capillary electrophoretic separation of phenolic diterpenes from rosemary 953(2002)251

Quantitative determination of phenolic diterpenes in rosemary extracts. Aspects of accurate quantification 995(2003)119

Carotenes

see also Vitamins

Measurements of the major isoforms of vitamins A and E and carotenoids in the blood of people with spinal-cord injuries 987(2003)359

Carotenoids

Measurements of the major isoforms of vitamins A and E and carotenoids in the blood of people with spinal-cord injuries 987(2003)359

Carrageenan

κ -Carrageenan as a new smart macroaffinity ligand for the purification of pullulanase 998(2003)103

Caseins

New chromatographic method for separation and determination of denatured α_{s1} -, α_{s2} -, β - and κ -caseins by hydrophobic interaction chromatography 958(2002)157

Separation and quantification of the major casein fractions by reverse-phase high-performance liquid chromatography and urea–polyacrylamide gel electrophoresis. Detection of milk adulterations 967(2002)209

Separation and determination of denatured α_{s1} -, α_{s2} -, β - and κ -caseins by hydrophobic interaction chromatography in cows', ewes' and goats' milk, milk mixtures and cheeses 994(2003)59

Catechins

Cation-exchange micropreparative separation of galloylated and non-galloylated sulphur conjugated catechins 973(2002)229

Purification of long-chain fatty acid ester of epigallocatechin-3-*O*-gallate by high-speed counter-current chromatography 982(2002)161

Analysis of catechins in extracts of *Cistus* species by microemulsion electrokinetic chromatography 990(2003)215

Rotation planar extraction and rotation planar chromatography of oak (*Quercus robur* L.) bark 991(2003)267

Catecholamines

see also Amines and Biogenic amines

Aqueous chromatography utilizing hydrophobicity-modified anionic temperature-responsive hydrogel for stationary phases 958(2002)109

Automated capillary liquid chromatography for simultaneous determination of neuroactive amines and amino acids 962(2002)105

Analysis of catecholamines by capillary electrophoresis and capillary electrophoresis–nanospray mass spectrometry. Use of aqueous and non-aqueous solutions compared with physical parameters 979(2002)179

New approach to the simultaneous analysis of catecholamines and tyrosines in biological fluids 987(2003)349

Integration of a contactless conductivity detector into a commercial capillary cassette. Detection of inorganic cations and catecholamines 990(2003)45

Cations

see also Inorganic cations and Metal cations

Reversed-phase liquid chromatographic method for the determination of selected room-temperature ionic liquid cations 993(2003)173

Cefotaxime

Determination of cefotaxime and desacetylcefotaxime in cerebrospinal fluid by solid-phase extraction and high-performance liquid chromatography 976(2002)249

Cellulase

Separation of enzymes by sequential macroaffinity ligand-facilitated three-phase partitioning 995(2003)127

Cellulose

Ion-exchange separation of proteins by polyallylamine-grafted cellulose gel 955(2002)191

Enthalpic interactions in size exclusion chromatography of pullulan and cellulose in LiCl–*N,N*-dimethylacetamide 964(2002)47

Use of inverse gas chromatography to characterize cotton fabrics and their interactions with fragrance molecules at controlled relative humidity 969(2002)103

Cellulose esters

Determination of acid substituents and unesterified hydroxyl groups in cellulose esters 977(2002)247

Cellulose tribenzoate

Study of the adsorption equilibria of the enantiomers of 1-phenyl-1-propanol on cellulose tribenzoate using a microbore column 953(2002)55

Cephalosporins

Determination of cefotaxime and desacetylcefotaxime in cerebrospinal fluid by solid-phase extraction and high-performance liquid chromatography 976(2002)249

Cephadrine

Initial study of using a laminar fluid diffusion interface for sample preparation in high-performance liquid chromatography 954(2002)33

Ceramides

Structure–retention diagrams of ceramides established for their identification 973(2002)69

On-line solid-phase extraction of ceramides from yeast with ceramide III imprinted monolith 984(2003)173

Cerium

Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77

Cetyltrimethylammonium bromide

Rapid estimation of octanol–water partition coefficients using synthesized vesicles in electrokinetic chromatography 962(2002)207

Wall-coated open-tubular column chromatography on an organo–clay stationary phase 973(2002)143

Cetyltrimethylammonium chloride

Specific analyte–electrolyte additive interaction in transient isotachopheresis–capillary electrophoresis 993(2003)205

Chitin

Analysis of chitin oligosaccharides by capillary electrophoresis with laser-induced fluorescence 979(2002)431

Chitinases

Nickel and copper complexes of a chelating methacrylate sorbent in the purification of chitinases and specific immunoglobulin G₁ by immobilized metal ion affinity chromatography 983(2003)125

Chloramphenicol

Determination of the antibiotic chloramphenicol in meat and seafood products by liquid chromatography–electrospray ionization tandem mass spectrometry 994(2003)75

Chloride

Optimization of artificial neural networks used for retention modelling in ion chromatography 973(2002)47

Efficiency and characteristics of solid-phase (ion-exchange) extraction for removal of Cl[−] matrix 991(2003)23

Monitoring trace anion contamination in disk drive components 997(2003)259

Determination of chloride and sulfate in semiconductor-grade etchants comprised of acetic acid, nitric acid and phosphoric acid 997(2003)269

Chlormequat

Determination of chlormequat and mepiquat in pear, tomato, and wheat flour using on-line solid-phase extraction (Prospekt) coupled with liquid chromatography–electrospray ionization tandem mass spectrometry 966(2002)15

Chlorobenzenes

Solid-phase microextraction fibre–water distribution constants of more hydrophobic organic compounds and their correlations with octanol–water partition coefficients 999(2003)35

Chlorobenzylidenemalononitrile

Formation of 2-chlorobenzylidenemalononitrile (CS riot control agent) thermal degradation products at elevated temperatures 952(2002)205

3-Chloro-4-(dichloromethyl)-5-hydroxy-2[5H]-furanone (MX)

Gas chromatographic–mass spectrometric method for quantification of 3-chloro-4-(dichloromethyl)-5-hydroxy-2[5H]-furanone in chlorinated water samples 972(2002)259

4-Chlorodipicolinic acid

Dynamic chelation ion chromatography of transition and heavy metal ions using a mobile phase containing 4-chlorodipicolinic acid 953(2002)141

Chlorofluorocarbons

“Cold” solid-phase microextraction method for the determination of volatile halocarbons present in the atmosphere at ultra-trace levels 988(2003)167

Chloroform

Characterization of the interactions in polymer–filler systems by inverse gas chromatography 969(2002)255

Chloroformates

Gas chromatographic–mass spectrometric quantification of 4-(5)-methylimidazole in roasted coffee after ion-pair extraction 976(2002)285

Chlorophenols

Solid-phase microextraction coupled to high-performance liquid chromatography to determine phenolic compounds in water samples 953(2002)79

Optimization of a derivatization–solid-phase microextraction method for the analysis of thirty phenolic pollutants in water samples 963(2002)137

Concentration of chlorophenols in water with sodium dodecylsulfate- γ -alumina admicelles for high-performance liquid chromatographic analysis 972(2002)205

Direct determination of chlorophenols in landfill leachates by solid-phase micro-extraction-gas chromatography-mass spectrometry 975(2002)267

Separation and determination of phenolic compounds by capillary electrophoresis with chemiluminescence detection 978(2002)213

Phase-transfer catalytic determination of phenols as methylated derivatives by gas chromatography with flame ionization and mass-selective detection 983(2003)215

Conductive polymers as new media for solid-phase extraction: Isolation of chlorophenols from water sample 986(2003)111

On-line solid-phase extraction with molecularly imprinted polymers to selectively extract substituted 4-chlorophenols and 4-nitrophenol from water 995(2003)233

Chlorophenoxy acids

Coupling continuous subcritical water extraction, filtration, preconcentration, chromatographic separation and UV detection for the determination of chlorophenoxy acid herbicides in soils 959(2002)25

Chlorophyllides

Rapid separation of chlorophylls *a* and *b* and their demetallated and dephytylated derivatives using a monolithic silica C₁₈ column and a pyridine-containing mobile phase 994(2003)85

Chlorophylls

Rapid separation of chlorophylls *a* and *b* and their demetallated and dephytylated derivatives using a monolithic silica C₁₈ column and a pyridine-containing mobile phase 994(2003)85

3-Chloropropane-1,2-diol

Sensitive method for the determination of 1,3-dichloropropan-2-ol and 3-chloropropane-1,2-diol in soy sauce by capillary gas chromatography with mass spectrometric detection 952(2002)185

Chloropropanols

Sensitive method for the determination of 1,3-dichloropropan-2-ol and 3-chloropropane-1,2-diol in soy sauce by capillary gas chromatography with mass spectrometric detection 952(2002)185

Chlorpheniramine maleate

Development of a validated capillary electrophoresis method for enantiomeric purity testing of dexchlorpheniramine maleate 958(2002)291

Chlortetracycline

Thin-layer chromatography-matrix-assisted laser desorption ionisation-time-of-flight mass spectrometry using particle suspension matrices 958(2002)249

Cholestenone

Role of buffer concentration and applied voltage in obtaining a good separation in planar electrochromatography 983(2003)247

Cholesterol

Chromatographic characteristics of cholesterol-imprinted polymers prepared by covalent and non-covalent imprinting methods 962(2002)69

Characterization of solvation properties of lipid bilayer membranes in liposome electrokinetic chromatography 973(2002)167

Cholesterol bonded phase as a separation medium in liquid chromatography. Evaluation of properties and applications 986(2003)253

Cholesterol reducers

Determination of cholesterol-lowering statin drugs in aqueous samples using liquid chromatography-electrospray ionization tandem mass spectrometry 998(2003)133

Chromate

Determination of hexavalent chromium at the level of the California Public Health Goal by ion chromatography 956(2002)255

Chromium

Determination of hexavalent chromium at the level of the California Public Health Goal by ion chromatography 956(2002)255

Electrophoretic studies on the chelating tendency of bioactive sulphur-containing amino acids. The metal-methylcysteine-cysteine system 962(2002)233

Chemically facilitated chromium(VI) transport throughout an anion-exchange membrane. Application to an optical sensor for chromium(VI) monitoring 963(2002)205

Determination of hexavalent chromium by on-line dialysis-ion chromatography in a matrix of strong colourants and trivalent chromium 988(2003)151

Chrysoidine

Highly sensitive indirect photometric detection of cations by capillary electrophoresis with the cationic dye chrysoidine 997(2003)87

Cibacron Blue 3GA

Steric mass-action model for dye-ligand affinity adsorption of protein 957(2002)89

Cichoric acid

Simultaneous analysis of caffeic acid derivatives and alkamides in roots and extracts of *Echinacea purpurea* by high-performance liquid chromatography-photodiode array detection-electrospray mass spectrometry 986(2003)73

Cinchona alkaloids

Enantioseparation of various amino acid derivatives on a quinine based chiral anion-exchange selector at variable temperature conditions. Influence of structural parameters of the analytes on the apparent retention and enantioseparation characteristics 960(2002)97

Analysis of the *Cinchona* alkaloids by high-performance liquid chromatography and other separation techniques (Review) 967(2002)1

Enantiomer separation of *N*-protected amino acids by non-aqueous capillary electrophoresis and high-performance liquid chromatography with *tert*-butyl carbamoylated quinine in either the background electrolyte or the stationary phase 987(2003)421

Cinnamic esters

Determination of minor and trace volatile compounds in wine by solid-phase extraction and gas chromatography with mass spectrometric detection 966(2002)167

Ciprofloxacin

Optimisation of a dialytic set-up for liquid chromatography: automated separation and preconcentration of ciprofloxacin 975(2002)199

Determination of enrofloxacin and its metabolite ciprofloxacin in goat milk by high-performance liquid chromatography with diode-array detection. Optimization and validation 987(2003)221

CL-20

Cyclodextrin-assisted capillary electrophoresis for determination of the cyclic nitramine explosives RDX, HMX and CL-20. Comparison with high-performance liquid chromatography 999(2003)17

Clenbuterol

Extraction of clenbuterol from calf urine using a molecularly imprinted polymer followed by quantitation by high-performance liquid chromatography with UV detection 975(2002)157

Clophen A50

Development of a high-performance liquid chromatography carbon column based method for the fractionation of dioxin-like polychlorinated biphenyls 962(2002)79

Cluster boranes

Exploration of the electrophoretic behaviour of borane cluster anions and of the capability of capillary electrophoresis to separate them chirally 984(2003)121

Cobalt aluminate

Characterisation of the surface Lewis acid–base properties of the components of pigmented, impact-modified, bisphenol A polycarbonate–poly(butylene terephthalate) blends by inverse gas chromatography–phase separation and phase preferences 969(2002)119

Cocaine

Analysis of tropane and related alkaloids (Review) 978(2002)1

Colistins

Liquid chromatography–ion trap tandem mass spectrometry for the characterization of polypeptide antibiotics of the colistin series in commercial samples 976(2002)65

Colomonic acid

Colomonic acid: a novel chiral selector for capillary electrophoresis of basic drugs 962(2002)221

Color additives

Determining eight colorants in milk beverages by capillary electrophoresis 959(2002)317

Separation and quantitation of components in FD&C Red No. 3 using capillary electrophoresis 991(2003)275

Compound B

Extraordinary chiral discrimination in inclusion gas chromatography. Thermodynamics of enantioselectivity between a racemic perfluorodiether and a modified γ -cyclodextrin 1000(2003)311

Copper ions

Convection-aided collection of metal ions using chelating porous flat-sheet membranes 954(2002)277

Cortisol

Capillary electrophoretic enzyme immunoassay with electrochemical detection for cortisol 966(2002)187

Coumaphos

Determination of acaricides in honey by high-performance liquid chromatography with photodiode array detection 954(2002)173

Coumarins

Determination of khellin and visnagin in *Ammi visnaga* fruits by capillary electrophoresis 954(2002)291

Sub-second liquid chromatographic separations by means of shear-driven chromatography 979(2002)33

Creatine

High-performance capillary zone electrophoretic assay for markers of diabetic nephropathy in plasma and urine 987(2003)477

Creatinine

Increase of sample load without peak deterioration by careful selection of electrolyte in capillary zone electrophoresis 953(2002)227

High-performance capillary zone electrophoretic assay for markers of diabetic nephropathy in plasma and urine 987(2003)477

Cresols

Optimization of a derivatization–solid-phase microextraction method for the analysis of thirty phenolic pollutants in water samples 963(2002)137

Crown ethers

Simultaneous separation of common mono- and divalent cations on a calcinated silica gel column by ion chromatography with indirect photometric detection and aromatic monoamines–oxalic acid, containing crown ethers, used as eluent 956(2002)147

Retention behavior of common mono- and divalent cations on calcinated silica gel columns in ion chromatography with conductimetric detection and the use of nitric acid, containing crown ethers, as eluents 956(2002)159

Simultaneous separation of common mono- and divalent cations on an acid-treated silica gel column by ion chromatography with indirect photometric detection and tyramine–oxalic acid, containing 18-crown-6 as eluent 956(2002)173

Liquid chromatographic resolution of racemic amines, amino alcohols and related compounds on a chiral crown ether stationary phase 959(2002)75

Column chromatographic separation of uranium(VI) and other elements using poly(dibenzo-18-crown-6) and ascorbic acid medium 983(2003)277

(+)-(18-Crown-6)-2,3,11,12-tetracarboxylic acid

Enantioselective ion-exclusion chromatography on teicoplanin aglycone and (+)-(18-crown-6)-2,3,11,12-tetracarboxylic acid stationary phases 983(2003)91

Preparation and application of a new modified liquid chromatographic chiral stationary phase based on (+)-(18-crown-6)-2,3,11,12-tetracarboxylic acid 984(2003)163

CS

Formation of 2-chlorobenzylidenemalononitrile (CS riot control agent) thermal degradation products at elevated temperatures 952(2002)205

Cuprammonium hydroxide

Determination of etoposide phosphate intermediates by gradient liquid chromatography using postcolumn derivatization with cuprammonium hydroxide 952(2002)283

Curcumin

Capillary electrophoresis with amperometric detection of curcumin in Chinese herbal medicine pretreated by solid-phase extraction 962(2002)117

Cyanides

Anion-exchange chromatography of metal cyanide complexes with gradient separation and direct UV detection 956(2002)229

Cyanine dyes

Handling and detection of 0.8 amol of a near-infrared cyanine dye by capillary electrophoresis with laser-induced fluorescence detection 979(2002)307

Cyanogen bromide

Cyanogen bromide activation and coupling of ligands to diol-containing silica for high-performance affinity chromatography. Optimization of conditions 971(2002)95

In flow activation of diol–silica with cyanogen bromide and triethylamine for preparing high-performance affinity chromatographic columns 984(2003)9

Cyclodextrins

Continuous fractionation of enantiomer pairs in free solution using an electrophoretic analog of simulated moving bed chromatography 953(2002)263

Chromatographic behaviour of selected steroids and their inclusion complexes with β -cyclodextrin on octadecylsilica stationary phases with different carbon loads 955(2002)71

Chiral separation of amino acids derivatized with fluoresceine-5-isothiocyanate by capillary electrophoresis and laser-induced fluorescence detection using mixed selectors of β -cyclodextrin and sodium taurocholate 955(2002)133

Experimental investigation of the behavior of gas phase simulated moving beds 957(2002)211

Comparison of capillary electrophoresis and reversed-phase liquid chromatography for determination of the enantiomeric purity of an M3 antagonist 959(2002)299

Quantitative approach for the screening of cyclodextrins by nuclear magnetic resonance spectroscopy in support of chiral separations in liquid chromatography and capillary electrophoresis. Enantioseparation of norgestrel with α -, β - and γ -cyclodextrins 961(2002)257

Enantiomer separation of flavour and fragrance compounds by liquid chromatography using novel urea-covalent bonded methylated β -cyclodextrins on silica 968(2002)31

Enantioseparation of phenothiazines in cyclodextrin-modified micellar electrokinetic chromatography 971(2002)261

Chromatographic enrichment and enantiomer separation of axially chiral polybrominated biphenyls in a technical mixture 973(2002)123

Comparing cyclodextrin derivatives as chiral selectors for enantiomeric separation in capillary electrophoresis 973(2002)187

Separation of stereoisomers of several furan derivatives by capillary gas chromatography–mass spectrometry, supercritical fluid chromatography, and liquid chromatography using chiral stationary phases 977(2002)125

Separation of aromatic aminophosphonic acid enantiomers by capillary electrophoresis with the application of cyclodextrins 979(2002)115

Simultaneous separation of different enantiomeric pairs in capillary electrophoresis by mixing different hemispherodextrins, a very versatile class of receptors 979(2002)137

Separation and migration behavior of structurally related phenothiazines in cyclodextrin-modified capillary zone electrophoresis 979(2002)399

Use of dynamically coated capillaries with added cyclodextrins for the analysis of opium using capillary electrophoresis 984(2003)109

Exploration of the electrophoretic behaviour of borane cluster anions and of the capability of capillary electrophoresis to separate them chirally 984(2003)121

Chiral separation of γ -butyrolactone derivatives by gas chromatography on 2,3-di-*O*-methyl-6-*O*-*tert*-butyldimethylsilyl- β -cyclodextrin 985(2003)321

Separation of opiate alkaloids by electrokinetic chromatography with sulfated-cyclodextrin as a pseudo-stationary phase 985(2003)493

Mechanistic study of enantiomeric recognition with native γ -cyclodextrin by capillary electrophoresis, reversed-phase liquid chromatography, nuclear magnetic resonance spectroscopy, electrospray mass spectrometry and circular dichroism techniques 987(2003)409

Capillary electrophoretic separation of enantiomers in a high-pH background electrolyte by means of the single-isomer chiral resolving agent octa(6-*O*-sulfo)- γ -cyclodextrin 987(2003)459

Indirect capillary electrophoresis with 8-anilino-1-naphthalenesulfonic acid as a fluorescence probe for determining the apparent stability constant of an inclusion complex formed between a cyclodextrin and a solute 987(2003)485

Monitoring dediazonation product formation by high-performance liquid chromatography after derivatization 989(2003)221

Electrophoretic enantiomer separations at high pH using the new, single-isomer octakis(2,3-dimethyl-6-*O*-sulfo)- γ -cyclodextrin as chiral resolving agent 990(2003)63

Enantioseparation of basic pharmaceutical compounds by capillary electrophoresis using sulfated cyclodextrins. Application to E-6006, a novel antidepressant 990(2003)91

Mixed chiral stationary phase containing modified resorcinarene and β -cyclodextrin selectors bonded to a polysiloxane for enantioselective gas chromatography 994(2003)127

Analysis of naphthalenesulfonate compounds by cyclodextrin-mediated capillary electrophoresis with sample stacking 996(2003)205

Ion-exclusion chromatography with conductimetric detection of aliphatic carboxylic acids on a weakly acidic cation-exchange resin by elution with benzoic acid- β -cyclodextrin 997(2003)127

Fast enantioseparation of arylglycine amides by capillary electrophoresis with highly sulfated- β -cyclodextrin as a chiral selector 998(2003)221

Cyclohexane

Use of solid-phase microextraction coupled with gas chromatography for the determination of residual solvents in pharmaceutical products 999(2003)195

***N*-Cyclohexyl diazeniumdioxide**

Analyses of the wood preservative component *N*-cyclohexyl-diazeniumdioxide in impregnated pine sapwood by direct thermal desorption-gas chromatography-mass spectrometry 953(2002)199

***trans*-Cyclohexylenebisbenzamide**

Copolymeric (1*R*-*trans*)-*N,N'*-1,2-cyclohexylene-bisbenzamide oligodimethylsiloxane chiral stationary phase for gas chromatography 982(2002)119

The role of chromatography in the hunt for red tide toxins 1000(2003)527

Cyclopentanediones

Improvement in the detection of impurities affecting ethylene glycol UV transmittance by gas chromatography-mass spectrometry 982(2002)255

Cyclophilins

Investigations of cyclophilin interactions with oligopeptides containing proline by affinity capillary electrophoresis 982(2002)275

Cyclopiazonic acid

Amino-bonded silica as stationary phase for liquid chromatographic determination of cyclopiazonic acid in fungal extracts 955(2002)79

Cysteine

Electrophoretic studies on the chelating tendency of bioactive sulphur-containing amino acids. The metal-methylcysteine-cysteine system 962(2002)233

Carbon fiber bundle-Au-Hg dual-electrode detection for capillary electrophoresis 971(2002)217

High-performance liquid chromatographic separation and indirect fluorescence detection of thiols 972(2002)221

Use of disposable gold working electrodes for cation chromatography–integrated pulsed amperometric detection of sulfur-containing amino acids 997(2003)73

Cytochrome P4501A-inducing compounds

Sequential fractionation procedure for the identification of potentially cytochrome P4501A-inducing compounds 986(2003)55

Erratum to “Sequential fractionation procedure for the identification of potentially cytochrome P4501A-inducing compounds”. [J. Chromatogr. A, 986 (2003) 55–66] 993(2003)223

Cytochromes

Verapamil: new insight into the molecular mechanism of drug oxidation in the human heart 970(2002)117

Miniaturized membrane-based reversed-phase chromatography and enzyme reactor for protein digestion, peptide separation, and protein identification using electrospray ionization mass spectrometry 979(2002)241

Extension of separation range in capillary isoelectric focusing for resolving highly basic biomolecules 979(2002)271

Cytosine

Determination of purine and pyrimidine bases in DNA by micellar electrokinetic capillary chromatography with electrochemical detection 954(2002)267

Cytotoxin

Comprehensive chemical derivatization for gas chromatography–mass spectrometry-based multi-targeted profiling of the major phytohormones 993(2003)89

D

Daidzein

Determination of daidzein and genistein in soybean foods by automated on-line in-tube solid-phase microextraction coupled to high-performance liquid chromatography 986(2003)169

Dansylhydrazine

Laser-induced fluorescence and UV detection of derivatized aldehydes in air samples using capillary electrophoresis 979(2002)409

Dapsone

Liquid chromatographic–tandem mass spectrometric determination of selected sulphonamides in milk 960(2002)121

Daunorubicin

Determination of free and liposome-associated daunorubicin and daunorubicinol in plasma by capillary electrophoresis 979(2002)379

Daunorubicinol

Determination of free and liposome-associated daunorubicin and daunorubicinol in plasma by capillary electrophoresis 979(2002)379

DaunoXome

Determination of free and liposome-associated daunorubicin and daunorubicinol in plasma by capillary electrophoresis 979(2002)379

D&C Yellow No. 10

Preparative separation of isomeric sulfophthalic acids by conventional and pH-zone-refining counter-current chromatography 966(2002)111

DDD

On-fiber photodegradation after solid-phase microextraction of *p,p'*-DDT and two of its major photoproducts, *p,p'*-DDE and *p,p'*-DDD 985(2003)175

DDE

On-fiber photodegradation after solid-phase microextraction of *p,p'*-DDT and two of its major photoproducts, *p,p'*-DDE and *p,p'*-DDD 985(2003)175

DDT

On-fiber photodegradation after solid-phase microextraction of *p,p'*-DDT and two of its major photoproducts, *p,p'*-DDE and *p,p'*-DDD 985(2003)175

Deacetylcefotaxime

Determination of cefotaxime and desacetylcefotaxime in cerebrospinal fluid by solid-phase extraction and high-performance liquid chromatography 976(2002)249

Deaminodiketometribuzin

Analysis of Metribuzin and transformation products in soil by pressurized liquid extraction and liquid chromatographic–tandem mass spectrometry 957(2002)79

Deaminometribuzin

Analysis of Metribuzin and transformation products in soil by pressurized liquid extraction and liquid chromatographic–tandem mass spectrometry 957(2002)79

Determination of metribuzin and major conversion products in soils by microwave-assisted water extraction followed by liquid chromatographic analysis of extracts 962(2002)9

Decane

Characterization of polyarylamide fibers by inverse gas chromatography 962(2002)153

Dehydroacetic acid

Comparing micellar electrokinetic chromatography and microemulsion electrokinetic chromatography for the analysis of preservatives in pharmaceutical and cosmetic products 993(2003)153

Dehydroepiandrosterone

Identification of dehydroepiandrosterone metabolites formed from human prostate homogenate using liquid chromatography–mass spectrometry and gas chromatography–mass spectrometry 961(2002)97

Analysis of ergosteroids. VIII: Enhancement of signal response of neutral steroidal compounds in liquid chromatographic–electrospray ionization mass spectrometric analysis by mobile phase additives 964(2002)137

Deoxyalliin

High-performance ion-pair chromatography method for simultaneous analysis of alliin, deoxyalliin, alliin and dipeptide precursors in garlic products using multiple mass spectrometry and UV detection 991(2003)69

Deoxyxylulose phosphate synthase

High-performance liquid chromatography assay for 1-deoxy-D-xylulose 5-phosphate synthase activity using fluorescence detection 986(2003)291

Dexchlorpheniramine maleate

Development of a validated capillary electrophoresis method for enantiomeric purity testing of dexchlorpheniramine maleate 958(2002)291

Dextrins

Simultaneous separation of different enantiomeric pairs in capillary electrophoresis by mixing different hemispherodextrins, a very versatile class of receptors 979(2002)137

Fractionation of starch hydrolysates into dextrins with narrow molecular mass distribution and their detection by high-performance anion-exchange chromatography with pulsed amperometric detection 992(2003)75

Dextrin characterization by high-performance anion-exchange chromatography–pulsed amperometric detection and size-exclusion chromatography–multi-angle light scattering–refractive index detection 997(2003)79

Diacylglycerols

Silver ion liquid-chromatographic mobility of plant diacylglycerols as a function of their composition and spatial arrangement 967(2002)269

Dialkyl dimethyl quaternary ammonium compounds

Determination of alkyl benzyl and dialkyl dimethyl quaternary ammonium biocides in occupational hygiene and environmental media by liquid chromatography with electrospray ionisation mass spectrometry and tandem mass spectrometry 952(2002)165

Dialkylimidazolium

1,3-Dialkylimidazolium-based room-temperature ionic liquids as background electrolyte and coating material in aqueous capillary electrophoresis 985(2003)447

Dialkyl phthalates

Use of synthetic adsorbents in preparative normal-phase liquid chromatography 989(2003)19

Diazepam

Simultaneous determination of neutral and acidic pharmaceuticals in wastewater by high-performance liquid chromatography–post-column photochemically induced fluorimetry 993(2003)29

Dibenzothiophene

Flame photometric detector for thin-layer chromatography 973(2002)151

Dibenzylamine-diamides, 2-substituted

Determination of the dissociation constants (pK_a) of basic acetylcholinesterase inhibitors by reversed-phase liquid chromatography 958(2002)59

Dibromonitrilepropionamide

Determination of toxic compounds in paper-recycling process waters by gas chromatography–mass spectrometry and liquid chromatography–mass spectrometry 963(2002)265

Dibutylphthalate

Gradient reversed-phase liquid chromatographic–electrospray ionization mass spectrometric method for the comparison of smokeless powders 988(2003)107

Dicarboxylic acids

Capillary electrophoretic separation of dicarboxylic acids in atmospheric aerosol particles 990(2003)133

Dichloroethane

Characterization of the interactions in polymer–filler systems by inverse gas chromatography 969(2002)255

1,3-Dichloropropan-2-ol

Sensitive method for the determination of 1,3-dichloropropan-2-ol and 3-chloropropan-1,2-diol in soy sauce by capillary gas chromatography with mass spectrometric detection 952(2002)185

Dichlorotriazinylamino-dimethylaminomethylphenazine

New triazine spectroscopic reagent for the separation of DL-amino acids by micellar electrokinetic chromatography 955(2002)125

Dichlorvos

Determination of dichlorvos by on-line microwave-assisted extraction coupled to headspace solid-phase microextraction and gas chromatography–electron-capture detection 976(2002)349

Diclofenac

Simultaneous determination of neutral and acidic pharmaceuticals in wastewater by high-performance liquid chromatography–post-column photochemically induced fluorimetry 993(2003)29

Dideoxyiminoarabinitol

Development and validation of a capillary electrophoresis–indirect photometric detection method for the determination of the non-UV-absorbing 1,4-dideoxy-1,4-imino-D-arabinitol in active pharmaceutical ingredients, solutions and tablets using an internal standard 996(2003)213

Didodecyldimethylammonium bromide

Fast ion chromatography of common inorganic anions on a short ODS column permanently coated with didodecyldimethylammonium bromide 953(2002)299

Diethylenetriaminepentaacetic acid

Isotachophoretic determination of stability constants of Ho and Y complexes with diethylenetriaminepentaacetic acid and 1,4,7,10-tetraazadodecane-N,N',N'',N'''-tetraacetic acid 990(2003)311

Diethylhexyl adipate

Determination of adipate plasticizers in poly(vinyl chloride) by microwave-assisted extraction 963(2002)401

Diethylhexyl phthalate

Simultaneous extraction of di(2-ethylhexyl) phthalate and nonionic surfactants from house dust. Concentrations in floor dust from 15 Danish schools 986(2003)179

Diethylphthalate

Gradient reversed-phase liquid chromatographic-electrospray ionization mass spectrometric method for the comparison of smokeless powders 988(2003)107

Difenzoquat

Analysis of the herbicides paraquat, diquat and difenzoquat in drinking water by micellar electrokinetic chromatography using sweeping and cation selective exhaustive injection 961(2002)65

Digitoxin

Applicability of mass spectrometry to detect coeluting impurities in high-performance liquid chromatography 971(2002)159

Digoxin

Applicability of mass spectrometry to detect coeluting impurities in high-performance liquid chromatography 971(2002)159

2,3-Dihydro-1,2,5-benzothiadiazepin-4(5H)-one

Enantioselective liquid chromatography of C₃-chiral 2,3-dihydro-1,2,5-benzothiadiazepin-4(5H)-one and thione 1,1-dioxides on polyacrylamide- and polysaccharide-based chiral stationary phases 993(2003)17

Dihydromyricetin

Purification of (+)-dihydromyricetin from leaves extract of *Ampelopsis grossedentata* using high-speed countercurrent chromatograph with scale-up triple columns 973(2002)217

Dihydropyrimidinone acid

Unusual effect of column temperature on chromatographic enantioseparation of dihydropyrimidinone acid and methyl ester on amylose chiral stationary phase 958(2002)69

Dihydroxyflavone

Identification of flavone aglycones and glycosides in soybean pods by liquid chromatography–tandem mass spectrometry 991(2003)61

Diisocyanates

Organic analysis by ion chromatography. 1. Determination of aromatic amines and aromatic diisocyanates by cation-exchange chromatography with amperometric detection 956(2002)215

Diisopropylidenehetogulonic acid

Development of a chiral non-aqueous capillary electrophoretic system using the partial filling technique with UV and mass spectrometric detection 986(2003)143

Diketometribuzin

Analysis of Metribuzin and transformation products in soil by pressurized liquid extraction and liquid chromatographic–tandem mass spectrometry 957(2002)79

Determination of metribuzin and major conversion products in soils by microwave-assisted water extraction followed by liquid chromatographic analysis of extracts 962(2002)9

1,2-Dimethoxyethane

Comparison of Chirasil-DEX CB as gas chromatographic and ULMO as liquid chromatographic chiral stationary phase for enantioseparation of aryl- and heteroarylcarbinols 992(2003)151

N,N-Dimethylacetamide

Determination of electroosmotic flow mobility with a pressure-mediated dual-ion technique for capillary electrophoresis with conductivity detection using organic solvents 960(2002)199

Dimethylaniline

High-performance liquid chromatographic stationary phases based on poly(methyloctylsiloxane) immobilized on silica. III. Stability evaluations 987(2003)93

Dimethylbutyldimethylsilylcyclodextrin

Chiral separation of γ -butyrolactone derivatives by gas chromatography on 2,3-di-*O*-methyl-6-*O*-*tert*-butyldimethylsilyl- β -cyclodextrin 985(2003)321

N,N-Dimethylformamide

Determination of electroosmotic flow mobility with a pressure-mediated dual-ion technique for capillary electrophoresis with conductivity detection using organic solvents 960(2002)199

Dimethylhexylamine

Capillary liquid chromatographic–high-resolution mass spectrometric analysis of ribonucleotides 976(2002)135

Dimethyl α -hydroxyfarnesylphosphonate

Chiral liquid chromatography separation and chiroptical properties of the enantiomers of dimethyl α -hydroxyfarnesylphosphonate, a precursor of a farnesyl protein transferase inhibitor 966(2002)221

Dimethyl methylphosphonate

Gas chromatographic analysis of the thermally unstable dimethyl methylphosphonate carbanion via trimethylsilyl derivatization 978(2002)177

***N,N*-Dimethyloctylamine**

Characterisation of reversed-phase stationary phases for the liquid chromatographic analysis of basic pharmaceuticals by thermodynamic data 964(2002)67

Dimethylphthalate

Gradient reversed-phase liquid chromatographic-electrospray ionization mass spectrometric method for the comparison of smokeless powders 988(2003)107

Dimyristolylphosphatidylcholine

Creation and characteristics of phosphatidylcholine stationary phases for the chromatographic separation of inorganic anions 997(2003)237

Dinitrofluorobenzene

Rapid method for the determination of amino acids in serum by capillary electrophoresis 979(2002)227

Dinitrogen peroxide

Potential of electrophilic epoxide reactions for the monitoring of acid gases in the environment 977(2002)251

Diphenylamine

Gradient reversed-phase liquid chromatographic-electrospray ionization mass spectrometric method for the comparison of smokeless powders 988(2003)107

Dipicolinic acid

Determination of spore concentration in *Bacillus thuringiensis* through the analysis of dipicolinate by capillary zone electrophoresis 994(2003)207

Dipyridyl disulfide

Determination of homocysteine in human plasma by micellar electrokinetic chromatography and in-capillary detection reaction with 2,2'-dipyridyl disulfide 990(2003)197

Diquat

Liquid chromatography–electrospray ionization isotope dilution mass spectrometry analysis of paraquat and diquat using conventional and multilayer solid-phase extraction cartridges 958(2002)25

Analysis of the herbicides paraquat, diquat and difenzoquat in drinking water by micellar electrokinetic chromatography using sweeping and cation selective exhaustive injection 961(2002)65

Diterpenes

Capillary electrophoretic separation of phenolic diterpenes from rosemary 953(2002)251

Separation of andrographolide and neoandrographolide from the leaves of *Andrographis paniculata* using high-speed counter-current chromatography 984(2003)147

Diterpenoids

Determination of toxic compounds in paper-recycling process waters by gas chromatography–mass spectrometry and liquid chromatography–mass spectrometry 963(2002)265

Dithiocarbamates

Determination of dithiocarbamate pesticides in occupational hygiene sampling devices using the isooctane method and comparison with an automatic thermal desorption (ATD) method 984(2003)81

Diuretics

Multivariate optimisation of a cyclodextrin-assisted-capillary zone electrophoretic method for the separation of torasemide and its metabolites 990(2003)271

Diuron

Determination of diuron and the antifouling paint biocide Irgarol 1051 in Dutch marinas and coastal waters 970(2002)183

DNA

see also Nucleic acids

Determination of purine and pyrimidine bases in DNA by micellar electrokinetic capillary chromatography with electrochemical detection 954(2002)267

Ion-pair reversed-phase high-performance liquid chromatography analysis of oligonucleotides: Retention prediction 958(2002)167

Micropreparative fractionation of DNA fragments on metathesis-based monoliths: influence of stoichiometry on separation 959(2002)121

Stable homogeneous gel for molecular-sieving of DNA fragments in capillary electrophoresis 960(2002)221

Multiplexed capillary electrophoresis for DNA sequencing with ultra violet absorption detection 960(2002)229

Copolymer solutions as separation media for DNA capillary electrophoresis (Review) 966(2002)1

Effects of metal ions on concentration of DNA in high-conductivity media by capillary electrophoresis 966(2002)195

Theory for the capillary electrophoretic separation of DNA in polymer solutions 967(2002)279

DNA-induced inter-particle cross-linking during expanded bed adsorption chromatography. Impact on future support design 971(2002)73

Rapid analysis of a plasmid by hydrophobic-interaction chromatography with a non-porous resin 972(2002)77

Purification of proteins specifically binding human endogenous retrovirus K long terminal repeat by affinity elution chromatography 976(2002)95

Micromachined capillary cross-connector for high-precision fraction collection 979(2002)105

Potential binding of borate ions to mono- and oligonucleotides: a capillary electrophoresis investigation 979(2002)285

Comparison of the separation of large DNA fragments in the presence and absence of electroosmotic flow at high pH 979(2002)299

Handling and detection of 0.8 amol of a near-infrared cyanine dye by capillary electrophoresis with laser-induced fluorescence detection 979(2002)307

Interaction between netropsin and double-stranded DNA in capillary zone electrophoresis and affinity capillary electrophoresis 982(2002)285

Enhancement of anion-exchange chromatography of DNA using compaction agents 984(2003)215

Determination of 8-hydroxy-2'-deoxyguanosine in untreated urine by capillary electrophoresis with UV detection 985(2003)513

Analysis of DNA adducts of acetaldehyde by liquid chromatography–mass spectrometry 987(2003)341

Adsorptive membrane chromatography for purification of plasmid DNA 989(2003)165

High-sensitivity capillary gel electrophoretic analysis of DNA fragments on an electrophoresis microchip using electrokinetic injection with transient isotachophoretic preconcentration 990(2003)53

Assessment of purity and quantification of plasmid DNA in process solutions using high-performance hydrophobic interaction chromatography 998(2003)109

2-Dodecylcyclobutanone

Supercritical fluid extraction for the detection of 2-dodecylcyclobutanone in low dose irradiated plant foods 968(2002)251

Dopamine

Evaluation of a sol–gel derived carbon composite electrode as an amperometric detector for capillary electrophoresis 991(2003)109

Doxorubicin

Displacement chromatography of isomers and therapeutic compounds 959(2002)85

Investigations into the chromatographic behavior of a doxorubicin–peptide conjugate 973(2002)27

Determination of minor conformational changes of a doxorubicin–peptide conjugate under chromatographic conditions 983(2003)73

DP-b99

Reversed-phase liquid chromatography of biologically active lipophilic chelators. II. Improvement of chromatographic performance and selected applications in biochemical analysis 987(2003)169

DP-109

Reversed-phase liquid chromatography of biologically active lipophilic chelators. II. Improvement of chromatographic performance and selected applications in biochemical analysis 987(2003)169

Drugs

see also Acidic drugs and Basic drugs

Use of a linear gradient flow program for liquid chromatography–mass spectrometry protein-binding studies 955(2002)237

Immobilized liposome chromatography to study drug–membrane interactions. Correlation with drug absorption in humans 961(2002)113

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17

Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3

Verapamil: new insight into the molecular mechanism of drug oxidation in the human heart 970(2002)117

Hyphenated techniques in anticancer drug monitoring. I. Capillary gas chromatography–mass spectrometry (Review) 976(2002)229

Hyphenated techniques in anticancer drug monitoring. II. Liquid chromatography–mass spectrometry and capillary electrophoresis–mass spectrometry (Review) 976(2002)239

Analysis of illicit amphetamine seizures by capillary zone electrophoresis 979(2002)345

Semi-automated hollow-fibre membrane extraction, a novel enrichment technique for the determination of biologically active compounds in water samples 985(2003)99

Determining orthogonal chromatographic systems prior to the development of methods to characterise impurities in drug substances 988(2003)77

Simultaneous determination of neutral and acidic pharmaceuticals in wastewater by high-performance liquid chromatography–post-column photochemically induced fluorimetry 993(2003)29

Application of comprehensive two-dimensional gas chromatography to drugs analysis in doping control (Review) 1000(2003)109

Liquid chromatography–(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment 1000(2003)503

Drugs of abuse

Chemometric detection of thermally degraded samples in the analysis of drugs of abuse with gas chromatography–Fourier-transform infrared spectroscopy 962(2002)161

Dyes

see also Azo dyes

Galactosyl-biomimetic dye-ligands for the purification of *Dactylium dendroides* galactose oxidase 954(2002)137

Steric mass-action model for dye–ligand affinity adsorption of protein 957(2002)89

Preparative separation of isomeric sulfophthalic acids by conventional and pH-zone-refining counter-current chromatography 966(2002)111

Sub-second liquid chromatographic separations by means of shear-driven chromatography 979(2002)33

Choice of different dyes to label tyrosine and nitrotyrosine 979(2002)209

Handling and detection of 0.8 amol of a near-infrared cyanine dye by capillary electrophoresis with laser-induced fluorescence detection 979(2002)307

Identification of natural dyes in archeological Coptic textiles by liquid chromatography with diode array detection 989(2003)239

Purification of quinoline yellow components using high-speed counter-current chromatography by stepwise increasing the flow-rate of the mobile phase 989(2003)249

Integrated moulded polymer electrodes for performing conductivity detection on isotachopheresis microdevices 990(2003)11

Separation and quantitation of components in FD&C Red No. 3 using capillary electrophoresis 991(2003)275

Analysis of food colorants by capillary electrophoresis with large-volume sample stacking 995(2003)29

Highly sensitive indirect photometric detection of cations by capillary electrophoresis with the cationic dye chrysoidine 997(2003)87

E

E-6006

Enantioseparation of basic pharmaceutical compounds by capillary electrophoresis using sulfated cyclodextrins. Application to E-6006, a novel antidepressant 990(2003)91

Ebrotidine

Determination of ebrotidine and its metabolites by micellar electrokinetic capillary chromatography 976(2002)221

Echinococside

Separation and determination of phenylpropanoid glycosides from *Pedicularis* species by capillary electrophoresis 986(2003)163

Ecstasy

Analysis of illicit amphetamine seizures by capillary zone electrophoresis 979(2002)345

Eleostearic acid

Separation of conjugated trienoic fatty acid isomers by capillary electrophoresis 985(2003)471

Emetine dithiocarbamate

Separation and determination of emetine dithiocarbamate metal complexes by capillary electrophoresis with chemiluminescence detection of the tris(2,2'-bipyridine)–ruthenium(II) complex 958(2002)283

Endocrine disruptors

Pressurized liquid extraction followed by liquid chromatography–mass spectrometry for the determination of alkylphenolic compounds in river sediment 959(2002)15

Application of on-line solid-phase extraction–gas chromatography–mass spectrometry to the determination of endocrine disruptors in water samples 963(2002)287

Method based on solid-phase microextraction–high-performance liquid chromatography with UV and electrochemical detection to determine estrogenic compounds in water samples 964(2002)153

Chromatographic characterisation of an estrogen-binding affinity column containing tetrapeptides selected by a combinatorial-binding approach 966(2002)71

Column-switching system with restricted access pre-column packing for an integrated sample cleanup and liquid chromatographic–mass spectrometric analysis of alkylphenolic compounds and steroid sex hormones in sediment 971(2002)37

Recent advances in the mass spectrometric analysis related to endocrine disrupting compounds in aquatic environmental samples (Review) 974(2002)23

Determination of endocrine-disrupting compounds in environmental samples using gas and liquid chromatography with mass spectrometry 974(2002)143

Determination of nineteen 4-alkylphenol endocrine disruptors in Geneva municipal sewage wastewater 976(2002)335

Separation and on-line concentration of bisphenol A and alkylphenols by micellar electrokinetic chromatography with cationic surfactant 979(2002)425

Determination of estrogens and their conjugates in water using solid-phase extraction followed by liquid chromatography–tandem mass spectrometry 984(2003)195

Semi-automated hollow-fibre membrane extraction, a novel enrichment technique for the determination of biologically active compounds in water samples 985(2003)99

On-column concentration of bisphenol A with one-step removal of humic acids in water 987(2003)389

Trace analysis of technical nonylphenol, bisphenol A and 17 α -ethinylestradiol in wastewater using solid-phase microextraction and gas chromatography–mass spectrometry 988(2003)41

Derivatisation and gas chromatography–chemical ionisation mass spectrometry of selected synthetic and natural endocrine disruptive chemicals 991(2003)77

Determination of endocrine-disrupting compounds in water samples by on-line solid-phase extraction–programmed-temperature vaporisation–gas chromatography–mass spectrometry 998(2003)41

Liquid chromatography–(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment 1000(2003)503

Endosulfan

Optimization of solid-phase extraction and solid-phase microextraction for the determination of α - and β -endosulfan in water by gas chromatography–electron-capture detection 976(2002)293

Application of single-drop microextraction and comparison with solid-phase microextraction and solid-phase extraction for the determination of α - and β -endosulfan in water samples by gas chromatography–electron-capture detection 984(2003)245

Rapid analytical method for the determination of pesticide residues in sunflower seeds based on focused microwave-assisted Soxhlet extraction prior to gas chromatography–tandem mass spectrometry 993(2003)121

Enflurane

Experimental investigation of the behavior of gas phase simulated moving beds 957(2002)211

Enflurane as an internal standard in monitoring halogenated volatile anaesthetics by headspace gas chromatography–mass spectrometry 985(2003)259

Enrofloxacin

Determination of enrofloxacin and its metabolite ciprofloxacin in goat milk by high-performance liquid chromatography with diode-array detection. Optimization and validation 987(2003)221

Enzyme inhibitors

see also Proteins

Polyhydroxy alkaloids: chromatographic analysis (Review) 967(2002)57

Optimisation by experimental design of a capillary electrophoretic method for the separation of several inhibitors of angiotensin-converting enzyme using alkylsulphonates 978(2002)231

Simultaneous separation of 11 protease and reverse transcriptase inhibitors for human immunodeficiency virus therapy by co-electroosmotic capillary zone electrophoresis 982(2002)153

Determination of PNU-248686A, a novel matrix metalloproteinase inhibitor, in human plasma by liquid chromatography–tandem mass spectrometry, following protein precipitation in the 96-well plate format 987(2003)249

Inhibition study of rhodanese by means of electrophoretically mediated microanalysis 990(2003)189

Selective separation of active inhibitors of epidermal growth factor receptor from *Caragana Jubata* by molecularly imprinted solid-phase extraction 991(2003)151

Enzymes

see also Proteins

Evaluation of *n*-valeraldehyde modified chitosan as a matrix for hydrophobic interaction chromatography 952(2002)79

Fast, efficient capillary electrophoresis method for measuring nucleotide degradation and metabolism 952(2002)275

Galactosyl-biomimetic dye-ligands for the purification of *Dactylium dendroides* galactose oxidase 954(2002)137

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Evaluation of a penicillin G acylase-based chiral stationary phase towards a series of 2-aryloxyalkanoic acids, isosteric analogs and 2-arylpropionic acids 958(2002)131

Hydrophobic interaction ligand selection and scale-up of an expanded bed separation of an intracellular enzyme from *Saccharomyces cerevisiae* 968(2002)121

Evaluation and applications of a new dye affinity adsorbent 972(2002)21

Determination of protein phosphorylation by extracellular signal-regulated kinase using capillary electrophoresis and matrix-assisted laser desorption ionization time-of-flight mass spectrometry 976(2002)79

Direct monitoring of the expression of the green fluorescent protein–extracellular signal-regulated kinase 2 fusion protein in transfected cells using capillary electrophoresis with laser-induced fluorescence detection 976(2002)87

Nickel and copper complexes of a chelating methacrylate sorbent in the purification of chitinases and specific immunoglobulin G₁ by immobilized metal ion affinity chromatography 983(2003)125

Direct chromatographic capture of enzyme from crude homogenate using immobilized metal affinity chromatography on a continuous supermacroporous adsorbent 986(2003)275

High-performance liquid chromatography assay for 1-deoxy-D-xylulose 5-phosphate synthase activity using fluorescence detection 986(2003)291

Kinetic study of angiotensin converting enzyme activity by capillary electrophoresis after in-line reaction at the capillary inlet 986(2003)303

Development and characterization of an immobilized enzyme reactor based on glyceraldehyde-3-phosphate dehydrogenase for on-line enzymatic studies 987(2003)331

Direct enzyme adsorption from an unclarified microbial feedstock using suspended bed chromatography 989(2003)109

Identification of protein A media performance attributes that can be monitored as surrogates for retrovirus clearance during extended re-use 989(2003)155

Inhibition study of rhodanese by means of electrophoretically mediated microanalysis 990(2003)189

In vitro comparison of complementary interactions between synthetic linear/branched oligo/poly-L-lysines and tissue plasminogen activator by means of high-performance monolithic-disk affinity chromatography 992(2003)109

Separation of enzymes by sequential macroaffinity ligand-facilitated three-phase partitioning 995(2003)127

Miniaturized on-line proteolysis–capillary liquid chromatography–mass spectrometry for peptide mapping of lactate dehydrogenase 998(2003)83

κ -Carrageenan as a new smart macroaffinity ligand for the purification of pullulanase 998(2003)103

Ephedrine

Analysis of illicit amphetamine seizures by capillary zone electrophoresis 979(2002)345

Epigallocatechin-3-O-gallate

Purification of long-chain fatty acid ester of epigallocatechin-3-O-gallate by high-speed counter-current chromatography 982(2002)161

Epigallocatechin-3-O-gallate-4'-hexadecanate

Purification of long-chain fatty acid ester of epigallocatechin-3-O-gallate by high-speed counter-current chromatography 982(2002)161

Epinephrine

Evaluation of a sol–gel derived carbon composite electrode as an amperometric detector for capillary electrophoresis 991(2003)109

Epirubicin

Displacement chromatography of isomers and therapeutic compounds 959(2002)85

Epoxiconazole

Liquid chromatographic method development for determination of fungicide epoxiconazole enantiomers by achiral and chiral column switching technique in water and soil 959(2002)143

Epoxides

Analysis of the oxidation products of *cis*- and *trans*-octadecenoate methyl esters by capillary gas chromatography–ion-trap mass spectrometry. I. Epoxide and dimeric compounds 985(2003)333

Epoxides, electrophilic

Potential of electrophilic epoxide reactions for the monitoring of acid gases in the environment 977(2002)251

Ergosteroids

Analysis of ergosteroids. VIII: Enhancement of signal response of neutral steroidal compounds in liquid chromatographic–electrospray ionization mass spectrometric analysis by mobile phase additives 964(2002)137

Ergosterol

Mass spectrometric determination of ergosterol in a prairie natural wetland 958(2002)149

Erythropoietin

Improved capillary isoelectric focusing method for recombinant erythropoietin analysis 968(2002)221

Erythrosine

Separation and quantitation of components in FD&C Red No. 3 using capillary electrophoresis 991(2003)275

Esters

Systematic characterisation of long-chain aliphatic esters of wool wax by gas chromatography–electron impact ionisation mass spectrometry 952(2002)193

Simultaneous modeling of the Kovats retention indices on OV-1 and SE-54 stationary phases using artificial neural networks 955(2002)273

Determination of esters in dry and sweet white wines by headspace solid-phase microextraction and gas chromatography 963(2002)213

Estradiol

Prediction of internal standards in reversed-phase liquid chromatography. II. Selectivity optimization and internal standard prediction for the quantitation of estradiol and levonorgestrel in a transdermal drug delivery formulation based on the linear solvation energy relationships 954(2002)159

Estrogenic compounds

Method based on solid-phase microextraction–high-performance liquid chromatography with UV and electrochemical detection to determine estrogenic compounds in water samples 964(2002)153

Estrogen quinones

Oligonucleotide covalent modifications by estrogen quinones evidenced by use of liquid chromatography coupled to negative electrospray ionization tandem mass spectrometry 976(2002)123

Estrogens

Chromatographic behaviour of selected steroids and their inclusion complexes with β -cyclodextrin on octadecylsilica stationary phases with different carbon loads 955(2002)71

Chromatographic characterisation of an estrogen-binding affinity column containing tetrapeptides selected by a combinatorial-binding approach 966(2002)71

Analysis on residues of estrogens, gestagens and androgens in kidney fat and meat with gas chromatography–tandem mass spectrometry 970(2002)235

Simple chamber for temperature-controlled planar chromatography 971(2002)193

Determination of estrogens and their conjugates in water using solid-phase extraction followed by liquid chromatography–tandem mass spectrometry 984(2003)195

Derivatisation and gas chromatography–chemical ionisation mass spectrometry of selected synthetic and natural endocrine disruptive chemicals 991(2003)77

Measurement of endogenous estrogens: analytical challenges and recent advances 1000(2003)401

Ethane

Physicochemical measurements by the reversed-flow version of inverse gas chromatography (Review) 969(2002)3

Ethanesulfonic acids

Accurate mass analysis of ethanesulfonic acid degradates of acetochlor and alachlor using high-performance liquid chromatography and time-of-flight mass spectrometry 957(2002)3

Determination of oxanilic and sulfonic acid metabolites of acetochlor in soils by liquid chromatography–electrospray ionisation mass spectrometry 957(2002)69

Ethanol

Capillary electrophoresis in aqueous–organic media. Ionic strength effects and limitations of the Hubbard–Onsager dielectric friction model 964(2002)213

Determination of ethanol in alcoholic beverages by high-performance liquid chromatography–flame ionization detection using pure water as mobile phase 976(2002)387

Co-eluent effect in partition chromatography. Rhamnose–xylose separation with strong and weak cation-exchangers in aqueous ethanol 982(2002)69

Quantitative accuracy in the gas chromatographic analysis of solvent mixtures 985(2003)21

Preliminary characterization of anhydrous ethanol used in Brazil as automotive fuel 985(2003)367

Use of solid-phase microextraction coupled with gas chromatography for the determination of residual solvents in pharmaceutical products 999(2003)195

17 α -Ethinylestradiol

Trace analysis of technical nonylphenol, bisphenol A and 17 α -ethinylestradiol in wastewater using solid-phase microextraction and gas chromatography–mass spectrometry 988(2003)41

Ethoxylates

Liquid exclusion–adsorption chromatography, a new technique for isocratic separation of nonionic surfactants. IV. Two-dimensional separation of fatty alcohol ethoxylates with focusing of fractions 952(2002)149

Liquid chromatography–mass spectrometry method to determine alcohol ethoxylates and alkylamine ethoxylates in soil interstitial water, ground water and surface water samples 957(2002)45

Liquid chromatographic–tandem mass spectrometric determination of nonylphenol polyethoxylates and nonylphenol carboxylic acids in surface water 961(2002)245

Development of a solid-phase microextraction method for the determination of short-ethoxy-chain nonylphenols and their brominated analogs in raw and treated water 963(2002)159

Determination of nonylphenol polyethoxylates in household detergents by high-performance liquid chromatography 968(2002)143

Determination of nineteen 4-alkylphenol endocrine disrupters in Geneva municipal sewage wastewater 976(2002)335

Retention mechanism of fatty alcohol ethoxylates in reversed-phase liquid chromatography 986(2003)199

Ethylbenzene

Determination of benzy succinic acid in gasoline-contaminated groundwater by solid-phase extraction coupled with gas chromatography–mass spectrometry 953(2002)215

Inverse gas chromatographic measurement of solubility parameters in liquid crystalline systems 964(2002)199

Characterization and source identification of hydrocarbons in water samples using multiple analytical techniques 971(2002)173

Role of the retaining precolumn in large-volume on-column injections of volatiles to gas chromatography 975(2002)95

Use of experimental design for the purge-and-trap-gas chromatography–mass spectrometry determination of methyl *tert*.-butyl ether, *tert*.-butyl alcohol and BTEX in groundwater at trace level 975(2002)113

Analytical characteristics of the determination of benzene, toluene, ethylbenzene and xylenes in water by headspace solvent microextraction 977(2002)143

Headspace microdrop analysis—an alternative test method for gasoline diluent and benzene, toluene, ethylbenzene and xylenes in used engine oils 983(2003)205

Determination of siloxane–water partition coefficients by capillary extraction–high-resolution gas chromatography. Study of aromatic solvents 985(2003)39

Capillary extractors for “negligible depletion” sampling of benzene, toluene, ethylbenzene and xylenes by in-tube solid-phase microextraction 985(2003)85

In-tube solid-phase microextraction sampler for long-term storage 985(2003)93

Trace analysis of benzene, toluene, ethylbenzene and xylene isomers in environmental samples by low-pressure gas chromatography–ion trap mass spectrometry 985(2003)191

High-performance liquid chromatographic stationary phases based on poly(methyloctylsiloxane) immobilized on silica. III. Stability evaluations 987(2003)93

Competitive extraction of multi-component contaminants in water by Carboxen–polydimethylsiloxane fiber during solid-phase microextraction 988(2003)177

Simultaneous determination of methyl *tert*.-butyl ether and its degradation products, other gasoline oxygenates and benzene, toluene, ethylbenzene and xylenes in Catalonian groundwater by purge-and-trap-gas chromatography–mass spectrometry 995(2003)171

On-site calibration method based on stepwise solid-phase microextraction 999(2003)43

Ethyl centralite

Gradient reversed-phase liquid chromatographic-electrospray ionization mass spectrometric method for the comparison of smokeless powders 988(2003)107

Ethylenediamine

Ethylenediamine as eluent component in cation chromatography. Predictive and comparative study for analysis of alkaline earth ions 955(2002)1

Ethylenediaminetetramethylenephosphonic acid

Interaction of immunoglobulin G with N,N,N',N'-ethylenediaminetetramethylenephosphonic acid-modified zirconia 989(2003)131

Ethylenediaminetriacetic acid

Purification of the specific immunoglobulin G₁ by immobilized metal ion affinity chromatography using nickel complexes of chelating porous and nonporous polymeric sorbents based on poly(methacrylic esters). Effect of polymer structure 954(2002)115

Ethylene glycol

Improvement in the detection of impurities affecting ethylene glycol UV transmittance by gas chromatography–mass spectrometry 982(2002)255

Ion chromatographic identification and quantification of glycol degradation products 997(2003)279

Ethylene glycol dinitrate

Identification of nitrate ester explosives by liquid chromatography–electrospray ionization and atmospheric pressure chemical ionization mass spectrometry 977(2002)59

Ethylene oxide

Determination of ethylene oxide by solid-phase microextraction device with on-fiber derivatization 991(2003)1

Ethyl ethoxybenzoate

Hollow-fibre liquid-phase microextraction of phthalate esters from water 999(2003)145

4-Ethylguaiacol

Determination of 4-ethylguaiacol and 4-ethylphenol in red wines using headspace-solid-phase microextraction-gas chromatography 975(2002)349

Ethylguanine

Analysis of DNA adducts of acetaldehyde by liquid chromatography–mass spectrometry 987(2003)341

Etoposide phosphate

Determination of etoposide phosphate intermediates by gradient liquid chromatography using postcolumn derivatization with cuprammonium hydroxide 952(2002)283

Eucalyptol

Extraction of thymol, eucalyptol, menthol, and camphor residues from honey and beeswax. Determination by gas chromatography with flame ionization detection 954(2002)207

Exopolysaccharides

Flow field-flow fractionation and characterization of ionic and neutral polysaccharides of vegetable and microbial origin 967(2002)219

Explosives

On-line coupling of supercritical fluid extraction with high-performance liquid chromatography for the determination of explosives in vapour phases 963(2002)73

Detection of explosives and their degradation products in soil environments 963(2002)411

Identification of nitrate ester explosives by liquid chromatography–electrospray ionization and atmospheric pressure chemical ionization mass spectrometry 977(2002)59

Gradient reversed-phase liquid chromatographic-electrospray ionization mass spectrometric method for the comparison of smokeless powders 988(2003)107

Microscale solid-phase extraction system for explosives 991(2003)159

Cyclodextrin-assisted capillary electrophoresis for determination of the cyclic nitramine explosives RDX, HMX and CL-20. Comparison with high-performance liquid chromatography 999(2003)17

Extracellular signal-regulated kinase

Determination of protein phosphorylation by extracellular signal-regulated kinase using capillary electrophoresis and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry 976(2002)79

Direct monitoring of the expression of the green fluorescent protein–extracellular signal-regulated kinase 2 fusion protein in transfected cells using capillary electrophoresis with laser-induced fluorescence detection 976(2002)87

F**Factor IX**

Continuous purification of a clotting factor IX concentrate and continuous regeneration by preparative annular chromatography 972(2002)115

Fatty acid ethyl esters

Headspace solid-phase microextraction of higher fatty acid ethyl esters in white rum aroma 954(2002)51

Fatty acid methyl esters

Utilisation of reversed-phase high-performance liquid chromatography as an alternative to silver-ion chromatography for the separation of *cis*- and *trans*-C18:1 fatty acid isomers 954(2002)285

At-line gas chromatographic–mass spectrometric analysis of fatty acid profiles of green microalgae using a direct thermal desorption interface 959(2002)191

Analysis of the oxidation products of *cis*- and *trans*-octadecenoate methyl esters by capillary gas chromatography–ion-trap mass spectrometry. I. Epoxide and dimeric compounds 985(2003)333

Isolation of chlorinated fatty acid methyl esters derived from cell-culture medium and from fish lipids by using an aminopropyl solid-phase extraction column 996(2003)173

Fatty acid polyglycol ethers

Liquid exclusion–adsorption chromatography: a new technique for isocratic separation of non-ionic surfactants. V. Two-dimensional separation of fatty acid polyglycol ethers 953(2002)89

Fatty acids

see also Carboxylic acids and Organic acids

Systematic characterisation of long-chain aliphatic esters of wool wax by gas chromatography–electron impact ionisation mass spectrometry 952(2002)193

At-line gas chromatographic–mass spectrometric analysis of fatty acid profiles of green microalgae using a direct thermal desorption interface 959(2002)191

Determination of toxic compounds in paper-recycling process waters by gas chromatography–mass spectrometry and liquid chromatography–mass spectrometry 963(2002)265

Analysis of mono- and diesters of *o*-phthalic acid by solid-phase extractions with polystyrene–divinylbenzene-based polymers 963(2002)393

Gas chromatographic determination of fatty acids contained in different lipid classes after their separation by solid-phase extraction 976(2002)47

Purification of long-chain fatty acid ester of epigallocatechin-3-*O*-gallate by high-speed counter-current chromatography 982(2002)161

Separation of conjugated trienoic fatty acid isomers by capillary electrophoresis 985(2003)471

Thermodynamics and kinetics of solute transfer in reversed-phase liquid chromatography 987(2003)3

Use of synthetic adsorbents in preparative normal-phase liquid chromatography 989(2003)19

Comparison of gas chromatography–mass spectrometry and liquid chromatography–mass spectrometry for the determination of fatty and resin acids in paper mill process waters 991(2003)205

Identification and confirmation of traces of chlorinated fatty acids in fish downstream of bleached kraft pulp mills by gas chromatography with halogen-specific detection 994(2003)137

Fatty acids, mycobacterial

Analysis of aminofluorescein–fatty acid derivatives by capillary electrophoresis with laser-induced fluorescence detection at the attomole level: application to mycobacterial fatty acids 973(2002)203

Fatty alcohol ethoxylates

Liquid exclusion–adsorption chromatography, a new technique for isocratic separation of nonionic surfactants. IV. Two-dimensional separation of fatty alcohol ethoxylates with focusing of fractions 952(2002)149

Retention mechanism of fatty alcohol ethoxylates in reversed-phase liquid chromatography 986(2003)199

Fatty alcohols

Systematic characterisation of long-chain aliphatic esters of wool wax by gas chromatography–electron impact ionisation mass spectrometry 952(2002)193

FD&C Red No. 3

Separation and quantitation of components in FD&C Red No. 3 using capillary electrophoresis 991(2003)275

Fenoterol

Use of a novel cation-exchange restricted-access material for automated sample clean-up prior to the determination of basic drugs in plasma by liquid chromatography 975(2002)145

Ferrocenecarboxylic acid esters

Fast liquid chromatography–electrochemistry–mass spectrometry of ferrocenecarboxylic acid esters 974(2002)103

Fetuin

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Flavanols

Cation-exchange micropreparative separation of galloylated and non-galloylated sulphur conjugated catechins 973(2002)229

Rotation planar extraction and rotation planar chromatography of oak (*Quercus robur* L.) bark 991(2003)267

Flavanones

Enantiomer separation of flavour and fragrance compounds by liquid chromatography using novel urea-covalent bonded methylated β -cyclodextrins on silica 968(2002)31

Flavin–adenine dinucleotide

Optimizing separation conditions for riboflavin, flavin mononucleotide and flavin adenine dinucleotide in capillary zone electrophoresis with laser-induced fluorescence detection 968(2002)229

Flavin mononucleotide

Optimizing separation conditions for riboflavin, flavin mononucleotide and flavin adenine dinucleotide in capillary zone electrophoresis with laser-induced fluorescence detection 968(2002)229

Flavins

Optimizing separation conditions for riboflavin, flavin mononucleotide and flavin adenine dinucleotide in capillary zone electrophoresis with laser-induced fluorescence detection 968(2002)229

Flavones

Identification of flavone aglycones and glycosides in soybean pods by liquid chromatography–tandem mass spectrometry 991(2003)61

Determination of aluminum in environmental and biological samples by reversed-phase high-performance liquid chromatography via pre-column complexation with morin 993(2003)179

Flavonoid alkaloids

Chromatography of the chromone and flavonoid alkaloids (Review) 967(2002)75

Flavonoids

Use of on-line liquid chromatography–nuclear magnetic resonance spectroscopy for the rapid investigation of flavonoids from *Sorocea bomplandii* 953(2002)287

On-line coupling of capillary isotachopheresis and capillary zone electrophoresis for the determination of flavonoids in methanolic extracts of *Hypericum perforatum* leaves or flowers 958(2002)261

Preparative isolation of polyphenolic compounds from *Vitis vinifera* by centrifugal partition chromatography 964(2002)123

Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3

Analysis of commercial vegetable tanning agents by reversed-phase liquid chromatography–electrospray ionization–tandem mass spectrometry and its application to wastewater 970(2002)191

Liquid chromatography with atmospheric pressure chemical ionization and electrospray ionization mass spectrometry of flavonoids with triple-quadrupole and ion-trap instruments 984(2003)45

Development and validation of a gas chromatographic–mass spectrometric method for simultaneous identification and quantification of marker compounds including bilobalide, ginkgolides and flavonoids in *Ginkgo biloba* L. extract and pharmaceutical preparations 986(2003)121

Isolation and identification of four flavonoid constituents from the seeds of *Oroxylum indicum* by high-speed counter-current chromatography 988(2003)95

Rapid and simultaneous analysis of some bioactive components in *Eucommia ulmoides* by capillary electrophoresis 989(2003)303

Identification of flavone aglycones and glycosides in soybean pods by liquid chromatography–tandem mass spectrometry 991(2003)61

Selective separation of active inhibitors of epidermal growth factor receptor from *Caragana Jubata* by molecularly imprinted solid-phase extraction 991(2003)151

Flavonol glycosides

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Fluoride

Optimization of artificial neural networks used for retention modelling in ion chromatography 973(2002)47

Fluorinated ethylene propylene

Capillary zone electrophoresis in laboratory-made fluorinated ethylene propylene capillaries 972(2002)283

Fluorobenzoic acids

Analysing fluorobenzoate tracers in groundwater samples using liquid chromatography–tandem mass spectrometry. A tool for leaching studies and hydrology 957(2002)11

Fluoroquinolones

Multiresidue determination of (fluoro)quinolone antibiotics in swine kidney using liquid chromatography–tandem mass spectrometry 952(2002)121

Validation of a liquid chromatography–tandem mass spectrometry method for the simultaneous quantification of 11 (fluoro)quinolone antibiotics in swine kidney 976(2002)195

Determination of quinolones and fluoroquinolones in fish tissue and seafood by high-performance liquid chromatography with electrospray ionisation tandem mass spectrometric detection 982(2002)97

Determination of enrofloxacin and its metabolite ciprofloxacin in goat milk by high-performance liquid chromatography with diode-array detection. Optimization and validation 987(2003)221

Quantitation of the enantiomers of ofloxacin by capillary electrophoresis in the parts per billion concentration range for in vitro drug absorption studies 988(2003)135

Development of a capillary zone electrophoresis–electrospray ionisation tandem mass spectrometry method for the analysis of fluoroquinolone antibiotics 990(2003)259

Fluoroquinones

Pharmacokinetic study of levofloxacin in rat blood and bile by microdialysis and high-performance liquid chromatography 961(2002)131

Fluorouracil

Determination of uracil in 5-fluorouracil substance by high-performance liquid chromatography 994(2003)221

Fluvalinate

Determination of acaricides in honey by high-performance liquid chromatography with photodiode array detection 954(2002)173

Formaldehyde

Simultaneous determination of ketoconazole and formaldehyde in a shampoo: liquid chromatography method development and validation 958(2002)191

Formamide

Potential of formamide and *N*-methylformamide in nonaqueous capillary electrophoresis coupled to electrospray ionization mass spectrometry. Application to the analysis of β -blockers 979(2002)389

Formic acid

Analysis of ergosteroids. VIII: Enhancement of signal response of neutral steroidal compounds in liquid chromatographic–electrospray ionization mass spectrometric analysis by mobile phase additives 964(2002)137

Quantitation of formate by solid-phase microextraction and gas chromatography–mass spectrometry utilizing a [^{13}C]formate internal standard 986(2003)313

Formononetin glycoside

Preparative isolation and purification of two isoflavones from *Astragalus membranaceus* Bge. var. *mongholicus* (Bge.) Hsiao by high-speed counter-current chromatography 992(2003)193

Fucoidan

Non-aqueous capillary electrophoresis of the positional isomers of a sulfated monosaccharide 987(2003)467

Fullerenes

Analysis of C_{60} and C_{70} fullerenes using high-performance liquid chromatography–Fourier transform infrared spectroscopy 960(2002)135

Hydroxyfullerene as a novel coating for solid-phase microextraction fiber with sol–gel technology 978(2002)37

Fullerol

Hydroxyfullerene as a novel coating for solid-phase microextraction fiber with sol–gel technology 978(2002)37

Fulvic acids

Separation methods in the chemistry of humic substances (Review) 983(2003)1

Capillary zone electrophoresis of natural organic matter 998(2003)1

Fumonisin

Liquid chromatographic determination of toxigenic secondary metabolites produced by *Fusarium* strains 955(2002)245

Furanochromones

Determination of khellin and visnagin in *Ammi visnaga* fruits by capillary electrophoresis 954(2002)291

Furans

Separation of stereoisomers of several furan derivatives by capillary gas chromatography–mass spectrometry, supercritical fluid chromatography, and liquid chromatography using chiral stationary phases 977(2002)125

3-(2-Furoyl)quinoline-2-carboxaldehyde

Determination of biogenic amines by 3-(2-furoyl)quinoline-2-carboxaldehyde and capillary electrophoresis with laser-induced fluorescence detection 998(2003)213

G**Galactose oxidase**

Galactosyl-biomimetic dye-ligands for the purification of *Dactylium dendroides* galactose oxidase 954(2002)137

Gallocatechins

Analysis of catechins in extracts of *Cistus* species by microemulsion electrokinetic chromatography 990(2003)215

Gases

Determination of phosphine in biogas and sludge at ppt-levels with gas chromatography–thermionic specific detection 952(2002)229

Application of a pulse-discharge helium detector to the determination of neon in air and water 968(2002)263

Enthalpy of fuel gas odorants on surrogate soil surfaces by gas chromatography 975(2002)311

Potential of electrophilic epoxide reactions for the monitoring of acid gases in the environment 977(2002)251

Geniposide

Identification and determination of geniposide contained in *Gardenia jasminoides* and in two preparations of mixed traditional Chinese medicines 961(2002)83

Aqueous two-phase extraction as an effective tool for isolation of geniposide from gardenia fruit 977(2002)239

Genistein

Determination of daidzein and genistein in soybean foods by automated on-line in-tube solid-phase microextraction coupled to high-performance liquid chromatography 986(2003)169

Gentamicin

Analytical method for the determination of the aminoglycoside gentamicin in hospital wastewater via LC–electrospray–tandem MS 1000(2003)583

Gestagens

Analysis on residues of estrogens, gestagens and androgens in kidney fat and meat with gas chromatography–tandem mass spectrometry 970(2002)235

Ginkgolic acid

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Ginkgolides

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Development and validation of a gas chromatographic–mass spectrometric method for simultaneous identification and quantification of marker compounds including bilobalide, ginkgolides and flavonoids in *Ginkgo biloba* L. extract and pharmaceutical preparations 986(2003)121

Ginsenosides

Pressurized liquid extraction of active ingredients (ginsenosides) from medicinal plants using non-ionic surfactant solutions 983(2003)153

Glucopoligosaccharides

Fractionation of starch hydrolysates into dextrans with narrow molecular mass distribution and their detection by high-performance anion-exchange chromatography with pulsed amperometric detection 992(2003)75

Glucopyranosides

Determination of etoposide phosphate intermediates by gradient liquid chromatography using postcolumn derivatization with cuprammonium hydroxide 952(2002)283

Glucoraphanin

Separation and purification of glucosinolates from crude plant homogenates by high-speed counter-current chromatography 996(2003)85

Glucosaminoglucan

Determination of the distribution of molecular masses of sodium hyaluronate by high-performance anion-exchange chromatography 986(2003)67

Glucose

Characterization of a novel diol column for high-performance liquid chromatography 987(2003)119

Glucosides

Development and validation of a capillary zone electrophoresis method for the quantitative determination of anthocyanins in wine 990(2003)247

Glucosinolates

Single column approach for the liquid chromatographic separation of polar and non-polar glucosinolates from broccoli sprouts and seeds 966(2002)227

Separation and purification of glucosinolates from crude plant homogenates by high-speed counter-current chromatography 996(2003)85

Glufosinate

Analysis of glyphosate, glufosinate and aminomethylphosphonic acid by capillary electrophoresis with indirect fluorescence detection 959(2002)309

Glutamic acid

Temperature influence on the dynamic binding capacity of a monolithic ion-exchange column 987(2003)159

Glutaraldehyde

Gas chromatographic determination of glutaraldehyde in the workplace atmosphere after derivatization with *O*-(2,3,4,5,6-pentafluorobenzyl)hydroxylamine on a solid-phase microextraction fibre 955(2002)117

Glutathione

Carbon fiber bundle–Au–Hg dual-electrode detection for capillary electrophoresis 971(2002)217

High-performance liquid chromatographic separation and indirect fluorescence detection of thiols 972(2002)221

Determination of dissolved thiols using solid-phase extraction and liquid chromatographic determination of fluorescently derivatized thiolic compounds 998(2003)31

Glyceraldehyde-3-phosphate dehydrogenase

Development and characterization of an immobilized enzyme reactor based on glyceraldehyde-3-phosphate dehydrogenase for on-line enzymatic studies 987(2003)331

Direct enzyme adsorption from an unclarified microbial feedstock using suspended bed chromatography 989(2003)109

Glyceric acid

Quantification of sugars and organic acids in hygroscopic pharmaceutical herbal dry extracts 968(2002)101

Glycerol dialkyl glycerol tetraethers

Rapid isolation of biomarkers for compound specific radiocarbon dating using high-performance liquid chromatography and flow injection analysis–atmospheric pressure chemical ionisation mass spectrometry 978(2002)129

Glycerols

Gas chromatographic determination of fatty acids contained in different lipid classes after their separation by solid-phase extraction 976(2002)47

Comparative analysis of different plant oils by high-performance liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 976(2002)255

Glycidyl methacrylate

Separation of proteins on polymeric stationary phases grafted with various amine groups 987(2003)323

Glycohemoglobin

Direct monitoring of glycohemoglobin A_{1c} in the blood samples of diabetic patients by capillary electrophoresis. Comparison with an immunoassay method 979(2002)201

Glycol ethers

Optimization of the headspace solid-phase microextraction for determination of glycol ethers by orthogonal array designs 977(2002)9

Glycols

Ion chromatographic identification and quantification of glycol degradation products 997(2003)279

Glycopeptides

New sample preparation technique for the determination of avoparcin in pressurized hot water extracts from kidney samples 954(2002)41

Separation of chiral sulfoxides by liquid chromatography using macrocyclic glycopeptide chiral stationary phases 955(2002)53

Structural analysis of a glycoprotein by liquid chromatography–mass spectrometry and liquid chromatography with tandem mass spectrometry. Application to recombinant human thrombomodulin 978(2002)141

Use of short-end injection capillary packed with a glycopeptide antibiotic stationary phase in electrochromatography and capillary liquid chromatography for the enantiomeric separation of hydroxy acids 990(2003)143

Development and validation of an improved method for the analysis of vancomycin by liquid chromatography. Selectivity of reversed-phase columns towards vancomycin components 996(2003)115

Glycoproteins

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Collection of α_1 -acid glycoprotein molecular species by capillary electrophoresis and the analysis of their molecular masses and carbohydrate chains. Basic studies on the analysis of glycoprotein glycoforms 958(2002)273

Simultaneous microanalysis of *N*-linked oligosaccharides in a glycoprotein using microbore graphitized carbon column liquid chromatography–mass spectrometry 968(2002)89

Improved capillary isoelectric focusing method for recombinant erythropoietin analysis 968(2002)221

Structural analysis of a glycoprotein by liquid chromatography–mass spectrometry and liquid chromatography with tandem mass spectrometry. Application to recombinant human thrombomodulin 978(2002)141

Determination of biotin on a protein by quantitative sodium dodecyl sulfate–capillary gel electrophoresis of monomeric avidin 994(2003)213

Glycosaminoglycans

Conductivity detection for molecular mass estimation of per-*O*-sulfonated glycosaminoglycans separated by high-performance size-exclusion chromatography 959(2002)95

Glycosides

On-line coupling of capillary isotachopheresis and capillary zone electrophoresis for the determination of flavonoids in methanolic extracts of *Hypericum perforatum* leaves or flowers 958(2002)261

Identification and determination of geniposide contained in *Gardenia jasminoides* and in two preparations of mixed traditional Chinese medicines 961(2002)83

Aqueous two-phase extraction as an effective tool for isolation of geniposide from gardenia fruit 977(2002)239

Analysis of anthraquinones in *Rubia tinctorum* L. by liquid chromatography coupled with diode-array UV and mass spectrometric detection 978(2002)119

Liquid chromatography with atmospheric pressure chemical ionization and electrospray ionization mass spectrometry of flavonoids with triple-quadrupole and ion-trap instruments 984(2003)45

Identification of flavone aglycones and glycosides in soybean pods by liquid chromatography–tandem mass spectrometry 991(2003)61

Preparative isolation and purification of two isoflavones from *Astragalus membranaceus* Bge. var. *mongholicus* (Bge.) Hsiao by high-speed counter-current chromatography 992(2003)193

Identification of acylated xanthone glycosides by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry in positive and negative modes from the lichen *Umbilicaria proboscidea* 995(2003)109

Glyphosate

Analysis of glyphosate, glufosinate and aminomethylphosphonic acid by capillary electrophoresis with indirect fluorescence detection 959(2002)309

Condensation nucleation light scattering detection with ion chromatography for direct determination of glyphosate and its metabolite in water 989(2003)231

Green fluorescent protein

On-line purification of His-tag enhanced green fluorescent protein taken directly from a bioreactor by continuous ultrasonic homogenization coupled with immobilized metal affinity expanded bed adsorption 968(2002)113

Direct monitoring of the expression of the green fluorescent protein–extracellular signal-regulated kinase 2 fusion protein in transfected cells using capillary electrophoresis with laser-induced fluorescence detection 976(2002)87

Growth hormones

see also Hormones

Optimization of immobilized metal ion affinity chromatography for single-step purification of recombinant ovine growth hormone expressed in *Escherichia coli* 998(2003)93

Guanidine thiocyanate

Separation and determination of denatured α_{s1} -, α_{s2} -, β - and κ -caseins by hydrophobic interaction chromatography in cows', ewes' and goats' milk, milk mixtures and cheeses 994(2003)59

Guanine

Determination of purine and pyrimidine bases in DNA by micellar electrokinetic capillary chromatography with electrochemical detection 954(2002)267

Analysis of DNA adducts of acetaldehyde by liquid chromatography–mass spectrometry 987(2003)341

Guluronic acids

Analysis of oligoguluronic acids with NMR, electrospray ionization–mass spectrometry and high-performance anion-exchange chromatography 968(2002)71

H**Haloacetic acids**

Applications of ion chromatography with electrospray mass spectrometric detection to the determination of environmental contaminants in water 956(2002)245

Separation of haloacetic acids in water by capillary zone electrophoresis with direct UV detection and contactless conductivity detection 993(2003)143

Determination of trace levels of haloacetic acids and perchlorate in drinking water by ion chromatography with direct injection 997(2003)225

Haloanisoles

Simultaneous determination of “earthy-musty” odorous haloanisoles and their corresponding halophenols in water samples using solid-phase microextraction coupled to gas chromatography with electron-capture detection 999(2003)135

Halogenated compounds

see also Organobromine compounds, Organochlorine compounds, Organoiodide compounds, Polychlorinated biphenyls, Polychlorinated dibenzodioxins and Polychlorinated dibenzofurans

Development of a solid-phase microextraction method for the determination of short-ethoxy-chain nonylphenols and their brominated analogs in raw and treated water 963(2002)159

Ketoimino groups as silica surface modifiers 969(2002)133

Analysis of alkyl organoiodide mixtures by high-performance liquid chromatography using electrochemical detection with a post-column photochemical reactor 976(2002)423

“Cold” solid-phase microextraction method for the determination of volatile halocarbons present in the atmosphere at ultra-trace levels 988(2003)167

Retention index calculation without *n*-alkanes—the virtual carbon number 993(2003)187

New strategy for comprehensive analysis of polybrominated diphenyl ethers, polychlorinated dibenzo-*p*-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls by gas chromatography coupled with mass spectrometry 998(2003)169

State-of-the-art of gas chromatography-based methods for analysis of anthropogenic volatile organic compounds in estuarine waters, illustrated with the river Scheldt as an example 1000(2003)283

Haloperidol

Recovery, enrichment and selectivity in liquid-phase microextraction. Comparison with conventional liquid–liquid extraction 963(2002)3

Halophenols

Simultaneous determination of “earthy-musty” odorous haloanisoles and their corresponding halophenols in water samples using solid-phase microextraction coupled to gas chromatography with electron-capture detection 999(2003)135

Helium

Temperature effects on the retention of *n*-alkanes and arenes in helium–squalane gas–liquid chromatography. Experiment and molecular simulation 954(2002)181

Hemoglobins

Study on protein adsorption kinetics to a dye–ligand adsorbent by the pore diffusion model 964(2002)35

Direct monitoring of glycohemoglobin A_{1c} in the blood samples of diabetic patients by capillary electrophoresis. Comparison with an immunoassay method 979(2002)201

Hepatotoxins

Analysis of cyanobacterial hepatotoxins in water samples by microbore reversed-phase liquid chromatography–electrospray ionisation mass spectrometry 959(2002)103

Heptanes

Inverse gas chromatographic measurement of solubility parameters in liquid crystalline systems 964(2002)199

Heptanol

Ion-exclusion chromatographic behavior of aliphatic carboxylic acids and benzenecarboxylic acids on a sulfonated styrene–divinylbenzene co-polymer resin column with sulfuric acid containing various alcohols as eluent 997(2003)95

Heteroarylcarbinols

Comparison of Chirasil-DEX CB as gas chromatographic and ULMO as liquid chromatographic chiral stationary phase for enantioseparation of aryl- and heteroarylcarbinols 992(2003)151

Heteropolyanions

Capillary electrophoretic determination of Ga(III) based on the formation of a heteropolyoxomolybdate complex 993(2003)211

Heteropolyoxomolybdate

Capillary electrophoretic determination of Ga(III) based on the formation of a heteropolyoxomolybdate complex 993(2003)211

Hexachlorocyclohexanes

Rapid analytical method for the determination of pesticide residues in sunflower seeds based on focused microwave-assisted Soxhlet extraction prior to gas chromatography–tandem mass spectrometry 993(2003)121

Hexadecylphosphocholine

Determination of total acidity and of divalent cations by ion chromatography with *n*-hexadecylphosphocholine as the stationary phase 956(2002)139

Hexafluoroisopropanol

Size-exclusion chromatography in 1,1,1,3,3,3-hexafluoro-2-propanol 964(2002)169

Hexamethonium hydroxide

Modification and validation of the pyromellitic acid electrolyte for the capillary electrophoretic determination of anions 995(2003)217

Hexamethoxymethylmelamine

Surface and wastewater quality monitoring: combination of liquid chromatography with (geno)toxicity detection, diode array detection and tandem mass spectrometry for identification of pollutants 970(2002)167

Hexamethyldisilazane

Simple off-line flash pyrolysis procedure with in situ silylation for the analysis of hydroxybenzenes in humic acids and coals 967(2002)235

Hexamine cobalt

Enhancement of anion-exchange chromatography of DNA using compaction agents 984(2003)215

Hexokinase

Fast, efficient capillary electrophoresis method for measuring nucleotide degradation and metabolism 952(2002)275

Hippuric acid

Kinetic study of angiotensin converting enzyme activity by capillary electrophoresis after in-line reaction at the capillary inlet 986(2003)303

Hirudin

Determination of recombinant hirudin structural deviants by capillary zone electrophoresis augmented with buffer additives 979(2002)217

Histidine

Comparison of histidine-tag capture chemistries for purification following chemical extraction 953(2002)111

HMX

Cyclodextrin-assisted capillary electrophoresis for determination of the cyclic nitramine explosives RDX, HMX and CL-20. Comparison with high-performance liquid chromatography 999(2003)17

Holmium

Isotachophoretic determination of stability constants of Ho and Y complexes with diethylenetriaminepentaacetic acid and 1,4,7,10-tetraazadodecane-*N,N',N'',N'''*-tetraacetic acid 990(2003)311

Homocysteine

High-performance liquid chromatographic separation and indirect fluorescence detection of thiols 972(2002)221

Assay of total homocysteine and other thiols by capillary electrophoresis and laser-induced fluorescence detection. II. Pre-analytical and analytical conditions 979(2002)255

Determination of homocysteine in human plasma by micellar electrokinetic chromatography and in-capillary detection reaction with 2,2'-dipyridyl disulfide 990(2003)197

Use of disposable gold working electrodes for cation chromatography–integrated pulsed amperometric detection of sulfur-containing amino acids 997(2003)73

Hormones

see also Growth hormones and Plant hormones

Separation and detection of neuroactive steroids from biological matrices (Review) 955(2002)151

Reversed-phase high-performance liquid chromatography method for the determination of prolactin in bacterial extracts and in its purified form 955(2002)229

Determination of thyroid hormones in pharmaceutical preparations, after derivatization with 9-anthrolylnitrile, by high-performance liquid chromatography with fluorescence detection 958(2002)299

Column-switching system with restricted access pre-column packing for an integrated sample cleanup and liquid chromatographic–mass spectrometric analysis of alkylphenolic compounds and steroid sex hormones in sediment 971(2002)37

Evaluation of chromatographic versus electrophoretic behaviour of a series of therapeutical peptide hormones 985(2003)411

Liquid chromatography–(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment 1000(2003)503

Humic acids

Identification and quantification of polar naphthalene derivatives in contaminated groundwater of a former gas plant site by liquid chromatography–electrospray ionization tandem mass spectrometry 967(2002)201

Simple off-line flash pyrolysis procedure with in situ silylation for the analysis of hydroxybenzenes in humic acids and coals 967(2002)235

Separation methods in the chemistry of humic substances (Review) 983(2003)1

Capillary zone electrophoresis of soil humic acid fractions obtained by coupling size-exclusion chromatography and polyacrylamide gel electrophoresis 983(2003)263

On-column concentration of bisphenol A with one-step removal of humic acids in water 987(2003)389

Capillary zone electrophoresis of natural organic matter 998(2003)1

Humic substances

Separation methods in the chemistry of humic substances (Review) 983(2003)1

Capillary zone electrophoresis of natural organic matter 998(2003)1

Physico-chemical approach to study organotin sorption–desorption during solid-phase microextraction 999(2003)61

Hyaluronic acid

Flow field-flow fractionation and characterization of ionic and neutral polysaccharides of vegetable and microbial origin 967(2002)219

Determination of the distribution of molecular masses of sodium hyaluronate by high-performance anion-exchange chromatography 986(2003)67

Hydrazine

Determination of 3-nitrobenzanthrone in surface soil by normal-phase high-performance liquid chromatography with fluorescence detection 992(2003)101

Hydrocarbons

see also Volatile organic compounds

C₂–C₈ Hydrocarbon measurement and quality control procedures at the Global Atmosphere Watch Observatory Hohenpeissenberg 953(2002)175

Poly[1-(trimethylsilyl)-1-propyne] as chromatographic adsorbent and prospects of its application in packed and capillary columns 960(2002)151

Ketoimino groups as silica surface modifiers 969(2002)133

Characterization and source identification of hydrocarbons in water samples using multiple analytical techniques 971(2002)173

Wall-coated open-tubular column chromatography on an organo–clay stationary phase 973(2002)143

Determination of total petroleum hydrocarbons in soil by dynamic on-line supercritical fluid extraction with infrared photometric detection 986(2003)319

Optimized conditions for hydrocarbon group type analysis of base oils by thin-layer chromatography–flame ionisation detection 991(2003)255

Hydrocarbons, aromatic

see also Monocyclic aromatic hydrocarbons and Polynuclear aromatic hydrocarbons

Electron-capture detector and multiple negative ions of aromatic hydrocarbons 952(2002)173

Column switching–back flushing technique for the analysis of aromatic compounds in gasoline 972(2002)253

Determination of total and polycyclic aromatic hydrocarbons in aviation jet fuel 985(2003)197

Hydrochloric acid

Determination of total acidity and of divalent cations by ion chromatography with *n*-hexadecylphosphocholine as the stationary phase 956(2002)139

Hydrocortisone

Salt effects on the interaction of an amphiphilic model molecule with immobilized phosphatidylcholine monolayers 977(2002)185

Hydrofluoric acid

Ion chromatographic analysis of anions in ammonium hydroxide, hydrofluoric acid, and slurries, used in semiconductor processing 956(2002)109

Hydrogen

Determination of carbon monoxide, methane and carbon dioxide in refinery hydrogen gases and air by gas chromatography 989(2003)277

Hydrogen peroxide

Reproducible digestion method for ion-chromatographic analysis of anions in 30% hydrogen peroxide 956(2002)23

Determination of vanadium as 4-(2-pyridylazo)resorcinol–hydrogen peroxide ternary complexes by ion-interaction reversed-phase liquid chromatography 956(2002)221

Hydronium ion

Studies on the separation of hydronium ion using surfactant-modified reversed-phase stationary phases and eluents containing an acidified electrolyte 986(2003)263

Hydrophobic organic compounds

Estimation of soil organic partition coefficients: from retention factors measured by soil column chromatography with water as eluent 968(2002)7

Solid phase extraction sorbent consisting of alkyltrimethylammonium surfactants immobilized onto strong cation-exchange polystyrene resin 975(2002)135

Hydroxy acids

Use of short-end injection capillary packed with a glycopeptide antibiotic stationary phase in electrochromatography and capillary liquid chromatography for the enantiomeric separation of hydroxy acids 990(2003)143

Hydroxybenzaldehyde

Solid-phase microextraction from small volumes of sample in a glass capillary 988(2003)25

Hydroxybenzenes

Simple off-line flash pyrolysis procedure with in situ silylation for the analysis of hydroxybenzenes in humic acids and coals 967(2002)235

Hydroxybutyric acid

Determination of γ -hydroxybutyric acid in human urine by capillary electrophoresis with indirect UV detection and confirmation with electrospray ionization ion-trap mass spectrometry 990(2003)99

 α -Hydroxycarboxylic acids

Comparative evaluation of three α -hydroxycarboxylic acids for the separation of lanthanides by dynamically modified reversed-phase high-performance liquid chromatography 959(2002)163

Hydroxydeoxyguanosine

Determination of 8-hydroxy-2'-deoxyguanosine in untreated urine by capillary electrophoresis with UV detection 985(2003)513

Hydroxyethylidenediphosphonic acids

Capillary electrophoretic and thin-layer chromatographic characterization of rhenium complexation with 1-hydroxyethylidenediphosphonic acid 990(2003)317

Hydroxyfullerene

Hydroxyfullerene as a novel coating for solid-phase microextraction fiber with sol–gel technology 978(2002)37

6-Hydroxykynurenic acid

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Hydroxylamine

Ion chromatographic determination of trace hydroxylamine in waste streams generated by a pharmaceutical reaction process 956(2002)261

Hydroxymethoxybenzophenone

Gas chromatographic determination of 2-hydroxy-4-methoxybenzophenone and octyldimethyl-*p*-aminobenzoic acid sunscreen agents in swimming pool and bathing waters by solid-phase microextraction 967(2002)243

Hydroxyphosphonates

Chiral liquid chromatography separation and chiroptical properties of the enantiomers of dimethyl α -hydroxyfarnesylphosphonate, a precursor of a farnesyl protein transferase inhibitor 966(2002)221

Hydroxyprogesterones

Use of liquid chromatography–diode-array detection and mass spectrometry for rapid product identification in biotechnological synthesis of a hydroxyprogesterone 992(2003)85

Hydroxypropylmethylcellulose

Free-flow electrophoresis in a microfabricated chamber with a micromodule fraction separator. Continuous separation of proteins 990(2003)169

Hydroxypulvic acids

Simple method for reversed-phase high-performance liquid chromatographic analysis of fungal pigments in fruit-bodies of Boletales (Fungi) 964(2002)129

Hydroxypyrene

Determination of 1-hydroxypyrene in human urine by high-performance liquid chromatography with fluorescence detection using a deuterated internal standard 961(2002)107

Hydroxyquinolinesulfonic acid

High-performance liquid chromatographic separation and indirect fluorescence detection of thiols 972(2002)221

Hydroxytoluene, butylated

Application of solid-phase microextraction combined with gas chromatography–mass spectrometry to the determination of butylated hydroxytoluene in bottled drinking water 963(2002)179

Hyoscyamine

Analysis of tropane and related alkaloids (Review) 978(2002)1

Preparation of a molecularly imprinted polymer for the solid-phase extraction of scopolamine with hyoscyamine as a dummy template molecule 987(2003)103

Hypaconitine

Determination of five toxic alkaloids in two common herbal medicines with capillary electrophoresis 973(2002)243

Hypericin

Use of an on-line, precolumn photochemical reactor in high-performance liquid chromatography of naphthodianthrones in *Hypericum perforatum* preparations 987(2003)181

I**Ibuprofen**

see also Nonsteroidal anti-inflammatory drugs and Profens

Rapid screening of pK_a values of pharmaceuticals by pressure-assisted capillary electrophoresis combined with short-end injection 979(2002)369

Icariin

Purification of icariin from the extract of *Epimedium segittatum* using high-speed counter-current chromatography 962(2002)239

Idoxifene

Atmospheric pressure photoionization liquid chromatographic–mass spectrometric determination of idoxifene and its metabolites in human plasma 970(2002)155

Imidazoles

Increase of sample load without peak deterioration by careful selection of electrolyte in capillary zone electrophoresis 953(2002)227

Gas chromatographic–mass spectrometric quantification of 4-(5-)-methylimidazole in roasted coffee after ion-pair extraction 976(2002)285

Imidurea

Comparing micellar electrokinetic chromatography and microemulsion electrokinetic chromatography for the analysis of preservatives in pharmaceutical and cosmetic products 993(2003)153

Iminodiacetic acid

Purification of the specific immunoglobulin G₁ by immobilized metal ion affinity chromatography using nickel complexes of chelating porous and nonporous polymeric sorbents based on poly(methacrylic esters). Effect of polymer structure 954(2002)115

Convection-aided collection of metal ions using chelating porous flat-sheet membranes 954(2002)277

Nickel and copper complexes of a chelating methacrylate sorbent in the purification of chitinases and specific immunoglobulin G₁ by immobilized metal ion affinity chromatography 983(2003)125

Optimization of immobilized metal ion affinity chromatography for single-step purification of recombinant ovine growth hormone expressed in *Escherichia coli* 998(2003)93

Immunoglobulins

Purification of the specific immunoglobulin G₁ by immobilized metal ion affinity chromatography using nickel complexes of chelating porous and nonporous polymeric sorbents based on poly(methacrylic esters). Effect of polymer structure 954(2002)115

Nickel and copper complexes of a chelating methacrylate sorbent in the purification of chitinases and specific immunoglobulin G₁ by immobilized metal ion affinity chromatography 983(2003)125

Interaction of immunoglobulin G with N,N,N',N'-ethylenediaminetetramethylenephosphonic acid-modified zirconia 989(2003)131

Evaluation of protein-A chromatography media 989(2003)139

Indinavir

Structural elucidation of metabolites of ritonavir and indinavir by liquid chromatography–mass spectrometry 974(2002)91

Indoles

Screening of *Catharanthus roseus* secondary metabolites by high-performance liquid chromatography 955(2002)87

Inorganic anions

see also Special Issue Index

Electroosmotic flow controllable coating on a capillary surface by a sol–gel process for capillary electrophoresis 952(2002)255

- Fast ion chromatography of common inorganic anions on a short ODS column permanently coated with didodecyldimethylammonium bromide 953(2002)299
- Recent advances in ion chromatography suppressor improve anion separation and detection 956(2002)15
- Reproducible digestion method for ion-chromatographic analysis of anions in 30% hydrogen peroxide 956(2002)23
- Adjustable-capacity anion-exchange separator 956(2002)35
- New suppressor technology improves trace level anion analysis with carbonate–hydrogencarbonate mobile phases 956(2002)47
- Ion chromatographic system with a novel switching suppression device 956(2002)53
- New conductivity detection response equation for anions eluted with fully and partially ionised eluents in non-suppressed ion chromatography 956(2002)59
- Effects of common metal ions on the determination of anions by suppressed ion chromatography 956(2002)65
- Solving complex anion separation problems with a carbonate–hydrogencarbonate gradient 956(2002)71
- Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77
- Determination of trace level bromate and perchlorate in drinking water by ion chromatography with an evaporative preconcentration technique 956(2002)85
- US Environmental Protection Agency Method 326.0, a new method for monitoring inorganic oxyhalides and optimization of the postcolumn derivatization for the selective determination of trace levels of bromate 956(2002)93
- Rapid and direct determination of iodide in seawater by electrostatic ion chromatography 956(2002)103
- Ion chromatographic analysis of anions in ammonium hydroxide, hydrofluoric acid, and slurries, used in semiconductor processing 956(2002)109
- Automated trace anion determinations in concentrated electronic grade phosphoric acid by ion chromatography 956(2002)121
- Determination of anions at trace levels in power plant water samples by ion chromatography with electrolytic eluent generation and suppression 956(2002)129
- Applications of ion chromatography in cane sugar research and process problems 956(2002)187
- Applications of ion chromatography with electrospray mass spectrometric detection to the determination of environmental contaminants in water 956(2002)245
- Determination of hexavalent chromium at the level of the California Public Health Goal by ion chromatography 956(2002)255
- Semi-permanent surfactant coatings for inorganic anion analysis in capillary electrophoresis 956(2002)271
- Capillary electrophoretic analysis of inorganic anions in atmospheric hailstone samples 956(2002)279
- Environmental water monitoring by capillary electrophoresis and result comparison with solvent chemistry techniques 957(2002)17
- Application of a contactless conductometric detector for the simultaneous determination of small anions and cations by capillary electrophoresis with dual-opposite end injection 964(2002)227
- Determination of nitrate in seawater by capillary zone electrophoresis with chloride-induced sample self-stacking 966(2002)205
- Simultaneous capillary electrophoretic separation and detection of P(V) and As(V) as heteropoly-blue complexes 966(2002)213
- Zwitterionic ion chromatography using a dynamically coated column and mobile phase recycling 973(2002)103
- Detection of multiple anions by thin-layer chromatography 973(2002)159
- Electrophoretic separations with polyether ether ketone capillaries and capacitively coupled contactless conductivity detection 978(2002)205
- Potassium and sodium chloride ion pairs are presumed to constitute a complex during elution from a Sephadex G-15 column with sodium phosphate buffer 987(2003)49
- Integrated moulded polymer electrodes for performing conductivity detection on isotachophoresis microdevices 990(2003)11
- Analysis of water extracts from airborne dust samples by capillary isotachophoresis 990(2003)303
- Miniaturised isotachophoretic analysis of inorganic arsenic speciation using a planar polymer chip with integrated conductivity detection 990(2003)325
- Efficiency and characteristics of solid-phase (ion-exchange) extraction for removal of Cl⁻ matrix 991(2003)23

Specific analyte–electrolyte additive interaction in transient isotachopheresis–capillary electrophoresis 993(2003)205

Capillary electrophoretic determination of Ga(III) based on the formation of a heteropolyoxomolybdate complex 993(2003)211

Simultaneous separation of inorganic anions and cations by using anion-exchange and cation-exchange columns connected in tandem in ion chromatography 995(2003)153

Modification and validation of the pyromellitic acid electrolyte for the capillary electrophoretic determination of anions 995(2003)217

Modification of ion chromatographic separations by ionic and nonionic surfactants 997(2003)21

Environmental applications of a cryptand adjustable-capacity anion-exchange separator 997(2003)33

Application of a single electrode, modified with polydiphenylamine and dodecyl sulfate, for the simultaneous amperometric determination of electro-inactive anions and cations in ion chromatography 997(2003)65

High-speed simultaneous ion-exclusion/cation-exchange chromatography of anions and cations on a weakly acidic cation-exchange resin column 997(2003)219

Determination of trace levels of haloacetic acids and perchlorate in drinking water by ion chromatography with direct injection 997(2003)225

Creation and characteristics of phosphatidylcholine stationary phases for the chromatographic separation of inorganic anions 997(2003)237

Monitoring trace anion contamination in disk drive components 997(2003)259

Determination of chloride and sulfate in semiconductor-grade etchants comprised of acetic acid, nitric acid and phosphoric acid 997(2003)269

Developments in suppressor technology for inorganic ion analysis by ion chromatography using conductivity detection 1000(2003)725

Inorganic cations

see also Cations, Metal cations and Special Issue Index

Simultaneous separation of common mono- and divalent cations on a calcinated silica gel column by ion chromatography with indirect photometric detection and aromatic monoamines–oxalic acid, containing crown ethers, used as eluent 956(2002)147

Retention behavior of common mono- and divalent cations on calcinated silica gel columns in ion chromatography with conductimetric detection and the use of nitric acid, containing crown ethers, as eluents 956(2002)159

Simultaneous separation of common mono- and divalent cations on an acid-treated silica gel column by ion chromatography with indirect photometric detection and tyramine–oxalic acid, containing 18-crown-6 as eluent 956(2002)173

Determination of inorganic cations and ammonium in environmental waters by ion chromatography with a high-capacity cation-exchange column 956(2002)181

Applications of ion chromatography in cane sugar research and process problems 956(2002)187

Environmental water monitoring by capillary electrophoresis and result comparison with solvent chemistry techniques 957(2002)17

Application of a contactless conductometric detector for the simultaneous determination of small anions and cations by capillary electrophoresis with dual-opposite end injection 964(2002)227

Electrophoretic separations with polyether ether ketone capillaries and capacitively coupled contactless conductivity detection 978(2002)205

Potassium and sodium chloride ion pairs are presumed to constitute a complex during elution from a Sephadex G-15 column with sodium phosphate buffer 987(2003)49

Integration of a contactless conductivity detector into a commercial capillary cassette. Detection of inorganic cations and catecholamines 990(2003)45

Analysis of water extracts from airborne dust samples by capillary isotachopheresis 990(2003)303

Capillary electrophoretic determination of Ga(III) based on the formation of a heteropolyoxomolybdate complex 993(2003)211

Determination of sodium at low ng/l concentrations in simulated power plant waters by ion chromatography 995(2003)143

Simultaneous separation of inorganic anions and cations by using anion-exchange and cation-exchange columns connected in tandem in ion chromatography 995(2003)153

Mechanistic studies on the separation of cations in zwitterionic ion chromatography 997(2003)13

Modification of ion chromatographic separations by ionic and nonionic surfactants 997(2003)21

Application of a single electrode, modified with polydiphenylamine and dodecyl sulfate, for the simultaneous amperometric determination of electro-inactive anions and cations in ion chromatography 997(2003)65

Highly sensitive indirect photometric detection of cations by capillary electrophoresis with the cationic dye chrysoidine 997(2003)87

High-speed ion chromatographic separation of cations at elevated temperature 997(2003)161

Monolithic octadecylsilyl-silica gel column for the high-speed ion chromatographic determination of acidity 997(2003)183

Selective determination of ammonium ions by high-speed ion-exclusion chromatography on a weakly basic anion-exchange resin column 997(2003)191

High-speed simultaneous ion-exclusion/cation-exchange chromatography of anions and cations on a weakly acidic cation-exchange resin column 997(2003)219

Inorganic salts

Determination of the solubility of inorganic salts by headspace gas chromatography 996(2003)157

Insulin

Influence of pressure on the chromatographic behavior of insulin variants under nonlinear conditions 988(2003)205

Interleukins

Isolation and characterization of modified species of a mutated (Cys¹²⁵-Ala) recombinant human interleukin-2 971(2002)129

Iodide

Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77

Rapid and direct determination of iodide in seawater by electrostatic ion chromatography 956(2002)103

Specific analyte–electrolyte additive interaction in transient isotachopheresis–capillary electrophoresis 993(2003)205

Iodine

Axial and radial diffusion coefficients in a liquid chromatography column and bed heterogeneity 994(2003)1

Iodoacetamidofluoresceine

Assay of total homocysteine and other thiols by capillary electrophoresis and laser-induced fluorescence detection. II. Pre-analytical and analytical conditions 979(2002)255

Iodoalkanes

Analysis of alkyl organoiodide mixtures by high-performance liquid chromatography using electrochemical detection with a post-column photochemical reactor 976(2002)423

Ionomers

Molecular mass characterization of polymers with strongly interacting groups using gel permeation chromatography–light scattering detection 976(2002)155

Ionones

Enantiomer separation of flavour and fragrance compounds by liquid chromatography using novel urea-covalent bonded methylated β -cyclodextrins on silica 968(2002)31

Ipratropium

Use of a novel cation-exchange restricted-access material for automated sample clean-up prior to the determination of basic drugs in plasma by liquid chromatography 975(2002)145

Irgarol

Analysis of antifouling biocides Irgarol 1051 and Sea Nine 211 in environmental water samples using solid-phase microextraction and gas chromatography 952(2002)215

Determination of diuron and the antifouling paint biocide Irgarol 1051 in Dutch marinas and coastal waters 970(2002)183

Automated storage of gas chromatography–mass spectrometry data in a relational database to facilitate compound screening and identification 974(2002)223

Iridoid glycosides

Identification and determination of geniposide contained in *Gardenia jasminoides* and in two preparations of mixed traditional Chinese medicines 961(2002)83

Analysis of eleven iridoid glycosides by micellar electrokinetic capillary chromatography (MECC) and screening of plant samples by partial filling (MECC)–electrospray ionisation mass spectrometry 970(2002)287

Iridoids

Screening of *Catharanthus roseus* secondary metabolites by high-performance liquid chromatography 955(2002)87

Aqueous two-phase extraction as an effective tool for isolation of geniposide from gardenia fruit 977(2002)239

Rapid and simultaneous analysis of some bioactive components in *Eucommia ulmoides* by capillary electrophoresis 989(2003)303

Iron

Electrophoretic studies on the chelating tendency of bioactive sulphur-containing amino acids. The metal–methylcysteine–cysteine system 962(2002)233

Isocyanates

Organic analysis by ion chromatography. 1. Determination of aromatic amines and aromatic diisocyanates by cation-exchange chromatography with amperometric detection 956(2002)215

Isoflavones

Determination of daidzein and genistein in soybean foods by automated on-line in-tube solid-phase microextraction coupled to high-performance liquid chromatography 986(2003)169

Identification of flavone aglycones and glycosides in soybean pods by liquid chromatography–tandem mass spectrometry 991(2003)61

Preparative isolation and purification of two isoflavones from *Astragalus membranaceus* Bge. var. *mongholicus* (Bge.) Hsiao by high-speed counter-current chromatography 992(2003)193

Isoflavonoids

On-line identification of the antifungal constituents of *Erythrina vogelii* by liquid chromatography with tandem mass spectrometry, ultraviolet absorbance detection and nuclear magnetic resonance spectrometry combined with liquid chromatographic micro-fractionation 974(2002)123

Isoprene

Description and characterization of an on-line system for long-term measurements of isoprene, methyl vinyl ketone, and methacrolein in ambient air 995(2003)185

Isosilybin

Analysis of the active components of silymarin 990(2003)239

Itaconic acid

Retention of alkali, alkaline earth and transition metals on an itaconic acid cation-exchange column. Eluent pH, ionic strength and temperature effects upon selectivity 964(2002)113

K

Kaolin clay

Effects of dehydration on the apolar surface energetics of inorganic paper fillers 972(2002)241

Keto acids

Development of a capillary electrophoretic method for the analysis of amino acids containing tablets 993(2003)165

Ketoconazole

Simultaneous determination of ketoconazole and formaldehyde in a shampoo: liquid chromatography method development and validation 958(2002)191

Ketohexoses

Quantitation and test of enantiomeric purity of the L-ketohexoses by liquid chromatography with dual refractive index and laser-based chiroptical detection 987(2003)439

Ketoimines

Ketoimino groups as silica surface modifiers 969(2002)133

Ketones

see also Carbonyl compounds and Volatile organic compounds

Temperature dependence of Kováts indices in gas chromatography revisited 973(2002)135

Laser-induced fluorescence and UV detection of derivatized aldehydes in air samples using capillary electrophoresis 979(2002)409

Comprehensive two-dimensional gas chromatography of volatile and semi-volatile components using a diaphragm valve-based instrument 983(2003)195

Ketoprofen

see also Nonsteroidal anti-inflammatory drugs and Profens

Application of capillaries with minimized electroosmotic flow to the electrokinetic study of acidic drug– β -oleoyl- γ -palmitoyl-L- α -phosphatidyl choline liposome interactions 990(2003)205

Affinity electrochromatography of acidic drugs using a liposome-modified capillary 990(2003)281

Simultaneous determination of neutral and acidic pharmaceuticals in wastewater by high-performance liquid chromatography–post-column photochemically induced fluorimetry 993(2003)29

Ketosteril

Development of a capillary electrophoretic method for the analysis of amino acids containing tablets 993(2003)165

Khellin

Determination of khellin and visnagin in *Ammi visnaga* fruits by capillary electrophoresis 954(2002)291

Konjac

Flow field-flow fractionation and characterization of ionic and neutral polysaccharides of vegetable and microbial origin 967(2002)219

Kresoxim-methyl

Determination of pyrimethanil and kresoxim-methyl in green groceries by headspace solid-phase microextraction and gas chromatography–mass spectrometry 975(2002)355

L

Lactams

Application of micellar electrokinetic chromatography to the determination of sulfamethoxazole in oral pharmaceutical preparations 979(2002)315

Determination of amoxicillin in human plasma by direct injection and coupled-column high-performance liquid chromatography 987(2003)235

Lactate

Ginkgo biloba extract preserves pyruvate and enhances ascorbate in the cortex of gerbils during focal cerebral ischemia. A microdialysis–liquid chromatography study 985(2003)387

Lactate dehydrogenase

Evaluation and applications of a new dye affinity adsorbent 972(2002)21

Miniaturized on-line proteolysis–capillary liquid chromatography–mass spectrometry for peptide mapping of lactate dehydrogenase 998(2003)83

Lactoglobulins

Adsorption kinetics of β -lactoglobulin on a polyclonal immunochromatographic support 953(2002)17

Towards the understanding of molecular mechanisms in the early stages of heat-induced aggregation of β -lactoglobulin AB 970(2002)275

Lamotrigine

Therapeutic drug monitoring of lamotrigine using capillary electrophoresis. Evaluation of assay performance and quality assurance over a 4-year period in the routine arena 979(2002)353

Chiral separation of γ -butyrolactone derivatives by gas chromatography on 2,3-di-*O*-methyl-6-*O*-*tert*-butyldimethylsilyl- β -cyclodextrin 985(2003)321

Lanolin

Systematic characterisation of long-chain aliphatic esters of wool wax by gas chromatography–electron impact ionisation mass spectrometry 952(2002)193

Lanolin steryl esters

Complete characterisation of lanolin steryl esters by sub-ambient pressure gas chromatography–mass spectrometry in the electron impact and chemical ionisation modes 970(2002)249

Lanthanides

see also Rare earth ions

Comparative evaluation of three α -hydroxycarboxylic acids for the separation of lanthanides by dynamically modified reversed-phase high-performance liquid chromatography 959(2002)163

Isotachophoretic determination of stability constants of Ho and Y complexes with diethylenetriaminepentaacetic acid and 1,4,7,10-tetraazadodecane-*N,N',N'',N'''*-tetraacetic acid 990(2003)311

Determination of lanthanides in synthetic standards by reversed-phase high-performance liquid chromatography with the aid of a weighted least-squares regression model. Estimation of method sensitivities and detection limits 997(2003)171

Laponite

Wall-coated open-tubular column chromatography on an organo–clay stationary phase 973(2002)143

Enthalpy of fuel gas odorants on surrogate soil surfaces by gas chromatography 975(2002)311

Levamisole

Development and validation of a liquid chromatographic–electrospray tandem mass spectrometric multiresidue method for anthelmintics in milk 976(2002)181

Levofloxacin

Pharmacokinetic study of levofloxacin in rat blood and bile by microdialysis and high-performance liquid chromatography 961(2002)131

Levonorgestrel

Prediction of internal standards in reversed-phase liquid chromatography. II. Selectivity optimization and internal standard prediction for the quantitation of estradiol and levonorgestrel in a transdermal drug delivery formulation based on the linear solvation energy relationships 954(2002)159

Lidocaine

Rapid screening of pK_a values of pharmaceuticals by pressure-assisted capillary electrophoresis combined with short-end injection 979(2002)369

Lignans

Separation of diastereoisomers of podophyllum lignans by micellar electrokinetic chromatography 959(2002)263

Limonene

Determination of the disproportionation products of limonene used for the catalytic hydrogenation of castor oil 985(2003)313

Linalool

Comparison of different extraction methods for the analysis of fragrances from *Lavandula* species by gas chromatography–mass spectrometry 982(2002)31

Linalyl acetate

Comparison of different extraction methods for the analysis of fragrances from *Lavandula* species by gas chromatography–mass spectrometry 982(2002)31

Linoleic acid

Analysis of conjugated linoleic acid-enriched triacylglycerol mixtures by isocratic silver-ion high-performance liquid chromatography 953(2002)293

Lipids

Separation and detection of neuroactive steroids from biological matrices (Review) 955(2002)151

Ultrasound extraction and thin layer chromatography–flame ionization detection analysis of the lipid fraction in marine mucilage samples 963(2002)363

Effect of emulsifiers on surface properties of sucrose by inverse gas chromatography 969(2002)97

Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3

Characterization of solvation properties of lipid bilayer membranes in liposome electrokinetic chromatography 973(2002)167

Comparison of various extraction techniques for the determination of polycyclic aromatic hydrocarbons in worms 975(2002)165

Gas chromatographic determination of fatty acids contained in different lipid classes after their separation by solid-phase extraction 976(2002)47

Isolation of chlorinated fatty acid methyl esters derived from cell-culture medium and from fish lipids by using an aminopropyl solid-phase extraction column 996(2003)173

Lipodex E

Extraordinary chiral discrimination in inclusion gas chromatography. Thermodynamics of enantioselectivity between a racemic perfluorodiether and a modified γ -cyclodextrin 1000(2003)311

Liposomes

Immobilized liposome chromatography to study drug–membrane interactions. Correlation with drug absorption in humans 961(2002)113

Affinity partitioning for membrane purification exploiting the biotin–NeutrAvidin interaction. Model study of mixed liposomes and membranes 971(2002)117

Characterization of solvation properties of lipid bilayer membranes in liposome electrokinetic chromatography 973(2002)167

Application of capillaries with minimized electroosmotic flow to the electrokinetic study of acidic drug– β -oleoyl- γ -palmitoyl-L- α -phosphatidyl choline liposome interactions 990(2003)205

Affinity electrochromatography of acidic drugs using a liposome-modified capillary 990(2003)281

Luminol

Ultrasensitive chemiluminescence detection in capillary electrophoresis (Review) 959(2002)1

Determination of carbohydrates as their 3-aminophthalhydrazide derivatives by capillary zone electrophoresis with on-line chemiluminescence detection 992(2003)181

Luteolin

Identification of flavone aglycones and glycosides in soybean pods by liquid chromatography–tandem mass spectrometry 991(2003)61

Lysergic acid diethylamide

Use of dynamically coated capillaries with added cyclodextrins for the analysis of opium using capillary electrophoresis 984(2003)109

Rapid identification and quantitation of compounds with forensic interest using fast liquid chromatography–ion trap mass spectrometry and library searching 994(2003)93

Lysozyme

Solvent effect on protein binding by polymer brush grafted onto porous membranes 953(2002)101

Dual gradient ion-exchange chromatography improved refolding yield of lysozyme 959(2002)113

Tobacco protein separation by aqueous two-phase extraction 989(2003)119

M**Macrocytic glycopeptide**

Super/subcritical fluid chromatography chiral separations with macrocytic glycopeptide stationary phases 978(2002)185

Macrolides

Residue analysis of macrolides in poultry muscle by liquid chromatography–electrospray mass spectrometry 959(2002)131

Malathion

Determination of atrazine and four organophosphorus pesticides in ground water using solid phase microextraction (SPME) followed by gas chromatography with selected-ion monitoring 972(2002)183

Maleic acid

Selectivity behaviour of a bonded phosphonate–carboxylate polymeric ion exchanger for metal cations with varying eluent compositions 997(2003)3

Maleic anhydride

Determination of maleic anhydride in occupational atmospheres 982(2002)261

Maltodextrins

Dextrin characterization by high-performance anion-exchange chromatography–pulsed amperometric detection and size-exclusion chromatography–multi-angle light scattering–refractive index detection 997(2003)79

Mandelic acid

Use of short-end injection capillary packed with a glycopeptide antibiotic stationary phase in electrochromatography and capillary liquid chromatography for the enantiomeric separation of hydroxy acids 990(2003)143

Mangiferin

Pharmacokinetic study of free mangiferin in rats by microdialysis coupled with microbore high-performance liquid chromatography and tandem mass spectrometry 987(2003)367

Matrix metalloproteinase inhibitors

Determination of PNU-248686A, a novel matrix metalloproteinase inhibitor, in human plasma by liquid chromatography–tandem mass spectrometry, following protein precipitation in the 96-well plate format 987(2003)249

Mebeverine

On-line micellar electrokinetic chromatography–mass spectrometry: feasibility of direct introduction of non-volatile buffer and surfactant into the electrospray interface 1000(2003)953

Memantine

Evaluation of calibration data in capillary electrophoresis using artificial neural networks to increase precision of analysis 979(2002)59

(2-Naphthoxy)acetyl chloride, a simple fluorescent reagent 987(2003)205

Membrane proteins

see also Proteins

Characterization of the refolding and reassembly of an integral membrane protein OmpF porin by low-angle laser light scattering photometry coupled with high-performance gel chromatography 961(2002)137

Menthol

Extraction of thymol, eucalyptol, menthol, and camphor residues from honey and beeswax. Determination by gas chromatography with flame ionization detection 954(2002)207

Mepiquat

Determination of chlormequat and mepiquat in pear, tomato, and wheat flour using on-line solid-phase extraction (Prospekt) coupled with liquid chromatography–electrospray ionization tandem mass spectrometry 966(2002)15

Mercaptan

Enthalpy of fuel gas odorants on surrogate soil surfaces by gas chromatography 975(2002)311

Mercury

Determination of methylmercury in human hair by ethylation followed by headspace solid-phase microextraction–gas chromatography–cold-vapour atomic fluorescence spectrometry 963(2002)345

Speciation analysis for mercury in gas condensates by capillary gas chromatography with inductively coupled plasma mass spectrometric detection 976(2002)431

Meropenem

Determination and pharmacokinetic study of meropenem in rat bile using on-line microdialysis and liquid chromatography 961(2002)119

Mesaconitine

Determination of five toxic alkaloids in two common herbal medicines with capillary electrophoresis 973(2002)243

Metal cations

see also Cations and Inorganic cations

Convection-aided collection of metal ions using chelating porous flat-sheet membranes 954(2002)277

Effects of common metal ions on the determination of anions by suppressed ion chromatography 956(2002)65

Determination of total acidity and of divalent cations by ion chromatography with *n*-hexadecylphosphocholine as the stationary phase 956(2002)139

Determination of vanadium as 4-(2-pyridylazo)resorcinol–hydrogen peroxide ternary complexes by ion-interaction reversed-phase liquid chromatography 956(2002)221

Ultrasensitive chemiluminescence detection in capillary electrophoresis (Review) 959(2002)1

Retention of alkali, alkaline earth and transition metals on an itaconic acid cation-exchange column. Eluent pH, ionic strength and temperature effects upon selectivity 964(2002)113

Effects of metal ions on concentration of DNA in high-conductivity media by capillary electrophoresis 966(2002)195

On-column complexation of metal ions using 2,6-pyridinedicarboxylic acid and separation of their anionic complexes by capillary electrophoresis with direct UV detection 966(2002)245

Development of capillary electrophoresis for the determination of metal ions using mixed partial and complete complexation techniques 977(2002)135

Column chromatographic separation of uranium(VI) and other elements using poly(dibenzo-18-crown-6) and ascorbic acid medium 983(2003)277

1,3-Dialkylimidazolium-based room-temperature ionic liquids as background electrolyte and coating material in aqueous capillary electrophoresis 985(2003)447

Titanium(IV) tungstosilicate and titanium(IV) tungstophosphate: two new inorganic ion exchangers 987(2003)147

Nonaqueous-based microchip separation of toxic metal ions using 2-(5-bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol 989(2003)311

Integrated moulded polymer electrodes for performing conductivity detection on isotachopheresis microdevices 990(2003)11

Determination of aluminum in environmental and biological samples by reversed-phase high-performance liquid chromatography via pre-column complexation with morin 993(2003)179

Capillary electrophoretic determination of Ga(III) based on the formation of a heteropolyoxomolybdate complex 993(2003)211

Selectivity behaviour of a bonded phosphonate–carboxylate polymeric ion exchanger for metal cations with varying eluent compositions 997(2003)3

Rapid determination of ions by combined solid-phase extraction–diffuse reflectance spectroscopy 997(2003)41

The potential of organic (electrospray- and atmospheric pressure chemical ionisation) mass spectrometric techniques coupled to liquid-phase separation for speciation analysis 1000(2003)841

Metal chelates

Convection-aided collection of metal ions using chelating porous flat-sheet membranes 954(2002)277

Determination of transition metal ions in tobacco as their 2-(2-quinolinylazo)-5-dimethylaminophenol derivatives using reversed-phase liquid chromatography with UV–VIS detection 971(2002)243

Gas and liquid chromatography of metal chelates of pentamethylene dithiocarbamate 973(2002)235

Metal complexes

Comparison of histidine-tag capture chemistries for purification following chemical extraction 953(2002)111

Purification of the specific immunoglobulin G₁ by immobilized metal ion affinity chromatography using nickel complexes of chelating porous and nonporous polymeric sorbents based on poly(methacrylic esters). Effect of polymer structure 954(2002)115

Metal complex-substituted polysiloxanes as novel coatings for capillary electrophoresis and capillary electrochromatography 954(2002)247

Anion-exchange chromatography of metal cyanide complexes with gradient separation and direct UV detection 956(2002)229

Separation and determination of emetine dithiocarbamate metal complexes by capillary electrophoresis with chemiluminescence detection of the tris(2,2'-bipyridine)–ruthenium(II) complex 958(2002)283

Electrophoretic studies on the chelating tendency of bioactive sulphur-containing amino acids. The metal–methylcysteine–cysteine system 962(2002)233

Chemically facilitated chromium(VI) transport throughout an anion-exchange membrane. Application to an optical sensor for chromium(VI) monitoring 963(2002)205

Practice and theory of enantioselective complexation gas chromatography (Review) 965(2002)315

Performance of metal complex substituted polysiloxanes in capillary electrophoresis and capillary electrochromatography 967(2002)289

Ketoimino groups as silica surface modifiers 969(2002)133

Nickel and copper complexes of a chelating methacrylate sorbent in the purification of chitinases and specific immunoglobulin G₁ by immobilized metal ion affinity chromatography 983(2003)125

Comparison of enantioseparations using Cu(II) complexes with L-amino acid amides as chiral selectors or chiral stationary phases by capillary electrophoresis, capillary electrochromatography and micro liquid chromatography 990(2003)75

Isotachopheretic determination of stability constants of Ho and Y complexes with diethylenetriaminepentaacetic acid and 1,4,7,10-tetraazadodecane-*N,N',N'',N'''*-tetraacetic acid 990(2003)311

Capillary electrophoretic and thin-layer chromatographic characterization of rhenium complexation with 1-hydroxyethylidenediphosphonic acid 990(2003)317

Metalloenes, planar chiral

Separation of planar chiral ferrocene derivatives on β-cyclodextrin-based polymer supports prepared via ring-opening metathesis graft-polymerization 973(2002)115

Metalloporphyrins

Open tubular capillary electrochromatography of underivatized amino acids using Rh(III) tetrakis(phenoxyphenyl)porphyrinate as wall modifier 990(2003)159

Metallothioneins

Evidence for oligomerization of metallothioneins in their functional state 979(2002)249

Metal oxides

New approach to characterise physicochemical properties of solid substrates by inverse gas chromatography at infinite dilution. III. Determination of the acid–base properties of some solid substrates (polymers, oxides and carbon fibres): a new model 969(2002)37

Experimental adsorption isotherms based on inverse gas chromatography 969(2002)81

Metals

see also Transition metals

Dynamic chelation ion chromatography of transition and heavy metal ions using a mobile phase containing 4-chlorodipicolinic acid 953(2002)141

Determination of hexavalent chromium at the level of the California Public Health Goal by ion chromatography 956(2002)255

Hydrophobic interaction chromatographic separation of proteins in human blood fractions hyphenated to atomic spectrometry as detector of essential elements 960(2002)143

Determination of methylmercury in human hair by ethylation followed by headspace solid-phase microextraction–gas chromatography–cold-vapour atomic fluorescence spectrometry 963(2002)345

Speciation analysis for mercury in gas condensates by capillary gas chromatography with inductively coupled plasma mass spectrometric detection 976(2002)431

Separation of vanadium isotopes by ion-exchange chromatography 989(2003)175

Ion chromatography with inductively coupled plasma mass spectrometry, a powerful analytical tool for complex matrices. Estimation of Pt and Pd in environmental samples 997(2003)51

Methacrolein

Description and characterization of an on-line system for long-term measurements of isoprene, methyl vinyl ketone, and methacrolein in ambient air 995(2003)185

Methacrylic acid

Novel surface modification of polymer-based separation media controlling separation selectivity, retentivity and generation of electroosmotic flow 979(2002)3

Methadone

Recovery, enrichment and selectivity in liquid-phase microextraction. Comparison with conventional liquid–liquid extraction 963(2002)3

Methamphetamine

Preparation of immunoaffinity columns for direct enantiomeric separation of amphetamine and/or methamphetamine 967(2002)191

Methane

Determination of carbon monoxide, methane and carbon dioxide in refinery hydrogen gases and air by gas chromatography 989(2003)277

Methanol

Determination of electroosmotic flow mobility with a pressure-mediated dual-ion technique for capillary electrophoresis with conductivity detection using organic solvents 960(2002)199

Quantitative accuracy in the gas chromatographic analysis of solvent mixtures 985(2003)21

Methionine

Use of disposable gold working electrodes for cation chromatography–integrated pulsed amperometric detection of sulfur-containing amino acids 997(2003)73

Methoprene

Isocratic reversed-phase liquid chromatographic method for the simultaneous determination of (*S*)-methoprene, MGK264, piperonyl butoxide, sumithrin and permethrin in pesticide formulation 983(2003)145

4-Methoxyphenylacetic acid

Development and substantiation of a liquid chromatographic method for monitoring organic reactions involved in synthesis of 4-methoxyphenylacetic acid 972(2002)277

Methyl *tert*.-butyl ether

Optimization of headspace solid-phase microextraction by means of an experimental design for the determination of methyl *tert*.-butyl ether in water by gas chromatography–flame ionization detection 963(2002)259

Use of experimental design for the purge-and-trap-gas chromatography–mass spectrometry determination of methyl *tert*.-butyl ether, *tert*.-butyl alcohol and BTEX in groundwater at trace level 975(2002)113

Simultaneous determination of methyl *tert*.-butyl ether and its degradation products, other gasoline oxygenates and benzene, toluene, ethylbenzene and xylenes in Catalonian groundwater by purge-and-trap-gas chromatography–mass spectrometry 995(2003)171

Determination of methyl *tert*.-butyl ether and *tert*.-butyl alcohol in seawater samples using purge-and-trap enrichment coupled to gas chromatography with atomic emission and mass spectrometric detection 999(2003)81

Methylcarbamates

Study of the feasibility of focused microwave-assisted Soxhlet extraction of *N*-methylcarbamates from soil 953(2002)133

Continuous ultrasound-assisted extraction coupled to on line filtration–solid-phase extraction–column liquid chromatography–post column derivatisation–fluorescence detection for the determination of *N*-methylcarbamates in soil and food 998(2003)51

Methyl centralite

Gradient reversed-phase liquid chromatographic-electrospray ionization mass spectrometric method for the comparison of smokeless powders 988(2003)107

Methylcysteine

Electrophoretic studies on the chelating tendency of bioactive sulphur-containing amino acids. The metal–methylcysteine–cysteine system 962(2002)233

Methylcytosine

Determination of purine and pyrimidine bases in DNA by micellar electrokinetic capillary chromatography with electrochemical detection 954(2002)267

Methyl elaidate

Analysis of the oxidation products of *cis*- and *trans*-octadecenoate methyl esters by capillary gas chromatography–ion-trap mass spectrometry. I. Epoxide and dimeric compounds 985(2003)333

Methylformamide

Potential of formamide and *N*-methylformamide in nonaqueous capillary electrophoresis coupled to electrospray ionization mass spectrometry. Application to the analysis of β -blockers 979(2002)389

Methylhexanoic acid

Ion-exclusion chromatographic separations of C_1 – C_6 aliphatic carboxylic acids on a sulfonated styrene–divinylbenzene copolymer resin column with 5-methylhexanoic acid as eluent 997(2003)107

Methylimidazole

Gas chromatographic–mass spectrometric quantification of 4-(5-)-methylimidazole in roasted coffee after ion-pair extraction 976(2002)285

Methylmercury

Methylmercury determination in biological samples by derivatization, solid-phase microextraction and gas chromatography with microwave-induced plasma atomic emission spectrometry 963(2002)313

Determination of methylmercury in human hair by ethylation followed by headspace solid-phase microextraction–gas chromatography–cold-vapour atomic fluorescence spectrometry 963(2002)345

***N*-Methyl-1-(3,4-methylenedioxyphenyl)-2-butanamine**

Chemometric detection of thermally degraded samples in the analysis of drugs of abuse with gas chromatography–Fourier-transform infrared spectroscopy 962(2002)161

Methyl oleate

Analysis of the oxidation products of *cis*- and *trans*-octadecenoate methyl esters by capillary gas chromatography–ion-trap mass spectrometry. I. Epoxide and dimeric compounds 985(2003)333

4-*O*-Methylpyridoxine

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Methylsulfamideantipyrimin

Mass spectrometric strategies for the analysis of polar industrial chemicals and their by-products in wastewater and surface water 974(2002)111

Methyl vinyl ketone

Description and characterization of an on-line system for long-term measurements of isoprene, methyl vinyl ketone, and methacrolein in ambient air 995(2003)185

Metribuzin

Analysis of Metribuzin and transformation products in soil by pressurized liquid extraction and liquid chromatographic–tandem mass spectrometry 957(2002)79

Determination of metribuzin and major conversion products in soils by microwave-assisted water extraction followed by liquid chromatographic analysis of extracts 962(2002)9

Metronidazole

Pharmacokinetics of metronidazole in rat blood, brain and bile studied by microdialysis coupled to microbore liquid chromatography 987(2003)277

MGK264

Isocratic reversed-phase liquid chromatographic method for the simultaneous determination of (*S*)-methoprene, MGK264, piperonyl butoxide, sumithrin and permethrin in pesticide formulation 983(2003)145

Mianserin

Liquid-phase microextraction combined with capillary electrophoresis, a promising tool for the determination of chiral drugs in biological matrices 963(2002)303

Microcystins

Analysis of cyanobacterial hepatotoxins in water samples by microbore reversed-phase liquid chromatography–electrospray ionisation mass spectrometry 959(2002)103

Further improvements in the application of high-performance liquid chromatography, capillary electrophoresis and capillary electrochromatography to the analysis of algal toxins in the aquatic environment 992(2003)159

Liquid chromatography–electrospray ionisation–mass spectrometry based method for the simultaneous determination of algal and cyanobacterial toxins in phytoplankton from marine waters and lakes followed by tentative structural elucidation of microcystins 994(2003)45

Molybdate

Determination of inorganic corrosion inhibitors in heat transfer systems by ion chromatography 997(2003)285

Monobromobimane

Determination of dissolved thiols using solid-phase extraction and liquid chromatographic determination of fluorescently derivatized thiolic compounds 998(2003)31

Monochloro-*s*-triazine reagents, chiral

Design of chiral monochloro-*s*-triazine reagents for the liquid chromatographic separation of amino acid enantiomers 998(2003)73

Monoclonal antibodies

see also Antibodies

Use of ultrasound to monitor the packing of large scale columns, the monitoring of medium compression and the passage of molecules, such as monoclonal antibodies, through the column bed during chromatography 989(2003)79

Identification of protein A media performance attributes that can be monitored as surrogates for retrovirus clearance during extended re-use 989(2003)155

Experimental comparison of three monoclonal antibodies for the class-selective immunoextraction of triazines. Correlation with molecular modeling and principal component analysis studies 999(2003)3

Monocyclic aromatic hydrocarbons

see also Hydrocarbons, aromatic

State-of-the-art of gas chromatography-based methods for analysis of anthropogenic volatile organic compounds in estuarine waters, illustrated with the river Scheldt as an example 1000(2003)283

Monoepoxy fatty acids

Sensitive and accurate quantitation of monoepoxy fatty acids in thermoxidized oils by gas–liquid chromatography 982(2002)145

Monoethylene glycol

Determination of inorganic corrosion inhibitors in heat transfer systems by ion chromatography 997(2003)285

Mononucleotides

Potential binding of borate ions to mono- and oligonucleotides: a capillary electrophoresis investigation 979(2002)285

Monosaccharides

see also Saccharides

Simultaneous analysis of monosaccharides and oligosaccharides by high-performance liquid chromatography with postcolumn fluorescence derivatization 961(2002)77

Monoterpenes

Gas chromatographic determination of vapour pressure and related thermodynamic properties of monoterpenes and biogenically related compounds 955(2002)105

Sensitive indoor air monitoring of monoterpenes using different adsorbents and thermal desorption gas chromatography with mass-selective detection 962(2002)175

Volatile components from *Anthriscus sylvestris* (L.) Hoffm 966(2002)233

Wet effluent diffusion denuder technique and the determination of volatile organic compounds in air. II. Monoterpenes 973(2002)211

Monoterpenoid indole alkaloids

High-performance liquid chromatographic, capillary electrophoretic and capillary electrophoretic–electrospray ionisation mass spectrometric analysis of selected alkaloid groups (Review) 967(2002)85

Montelukast sodium

Application of pressurized liquid extraction technology to pharmaceutical solid dosage form analysis 968(2002)257

Morin

Determination of aluminum in environmental and biological samples by reversed-phase high-performance liquid chromatography via pre-column complexation with morin 993(2003)179

Morphine

Liquid-phase microextraction of hydrophilic drugs by carrier-mediated transport 998(2003)61

Musk compounds

Optimisation of a solid-phase microextraction method for synthetic musk compounds in water 963(2002)277

Closed-loop stripping analysis of synthetic musk compounds from fish tissues with measurement by gas chromatography–mass spectrometry with selected-ion monitoring 993(2003)1

Determination of musk compounds in sewage treatment plant sludge samples by solid-phase microextraction 999(2003)185

High-performance liquid chromatographic stationary phases based on poly(methyloctylsiloxane) immobilized on silica. III. Stability evaluations 987(2003)93

Reproducible preparative liquid chromatography columns 992(2003)41

Mycotoxins

see also Toxins

Amino-bonded silica as stationary phase for liquid chromatographic determination of cyclopiazonic acid in fungal extracts 955(2002)79

Liquid chromatographic determination of toxigenic secondary metabolites produced by *Fusarium* strains 955(2002)245

Optimization of solid-phase clean-up prior to liquid chromatographic analysis of ochratoxin A in roasted coffee 959(2002)327

Determination of *Penicillium* mycotoxins in foods and feeds using liquid chromatography–mass spectrometry 964(2002)189

Screening of aflatoxins in feed samples using a flow system coupled to capillary electrophoresis 967(2002)303

Simultaneous quantification of A-trichothecene mycotoxins in grains using liquid chromatography–atmospheric pressure chemical ionisation mass spectrometry 968(2002)129

Monitoring and fast detection of mycotoxin-producing fungi based on headspace solid-phase microextraction and headspace sorptive extraction of the volatile metabolites 985(2003)127

Liquid chromatography–mass spectrometry and liquid chromatography–tandem mass spectrometry of the *Alternaria* mycotoxins alternariol and alternariol monomethyl ether in fruit juices and beverages 998(2003)119

Myoglobin

Voltage-controlled separation of proteins by electromobility focusing in a dialysis hollow fiber 985(2003)455

N**Naphthalene-2,3-dicarboxaldehyde**

Method of intracellular naphthalene-2,3-dicarboxaldehyde derivatization for analysis of amino acids in a single erythrocyte by capillary zone electrophoresis with electrochemical detection 959(2002)269

Comparative study of naphthalene-2,3-dicarboxaldehyde and *o*-phthalaldehyde fluorogenic reagents for chromatographic detection of sphingoid bases 977(2002)69

Naphthalenes

Influence of chromatographic conditions on separation in comprehensive gas chromatography 962(2002)135

Identification and quantification of polar naphthalene derivatives in contaminated groundwater of a former gas plant site by liquid chromatography–electrospray ionization tandem mass spectrometry 967(2002)201

Carrier gas as a new factor influencing the selectivity of the gas–stationary liquid phase chromatographic system 985(2003)57

Naphthalenesulfonates

Analysis of naphthalenesulfonate compounds by cyclodextrin-mediated capillary electrophoresis with sample stacking 996(2003)205

Naphthalenesulfonic acids

On-line sample preconcentration in micellar electrokinetic chromatography using ion-pair reagents 979(2002)131

Capillary zone electrophoresis in wide bore capillary tubes with fiber-coupled diode array detection 990(2003)23

Naphthodianthrones

Use of an on-line, precolumn photochemical reactor in high-performance liquid chromatography of naphthodianthrones in *Hypericum perforatum* preparations 987(2003)181

Naphthoic acids

Identification and quantification of polar naphthalene derivatives in contaminated groundwater of a former gas plant site by liquid chromatography–electrospray ionization tandem mass spectrometry 967(2002)201

Naphthol

Solid-phase microextraction from small volumes of sample in a glass capillary 988(2003)25

Naphthoquinonesulfonate

Continuous flow derivatization system coupled to capillary electrophoresis for the determination of amino acids 976(2002)55

Naphthoxyacetyl chloride

(2-Naphthoxy)acetyl chloride, a simple fluorescent reagent 987(2003)205

Naphthylamine

Solid-phase microextraction from small volumes of sample in a glass capillary 988(2003)25

Naphthylene methylethyl propanamide

Comparison of monomeric and polymeric chiral stationary phases 987(2003)111

Naproxen

Simultaneous determination of neutral and acidic pharmaceuticals in wastewater by high-performance liquid chromatography–post-column photochemically induced fluorimetry 993(2003)29

Neoandrographolide

Separation of andrographolide and neoandrographolide from the leaves of *Andrographis paniculata* using high-speed counter-current chromatography 984(2003)147

Neon

Application of a pulse-discharge helium detector to the determination of neon in air and water 968(2002)263

Neptunium

Determination of the absolute mobility and the equivalent ionic conductivity of NpO_2^+ at 25 °C and at infinite dilution by capillary electrophoresis–inductively coupled plasma-mass spectrometry 994(2003)199

Netropsin

Interaction between netropsin and double-stranded DNA in capillary zone electrophoresis and affinity capillary electrophoresis 982(2002)285

Neurotoxins

see also Toxins

Initial purification of recombinant botulinum neurotoxin fragments for pharmaceutical production using hydrophobic charge induction chromatography 952(2002)99

Neurotransmitters

Automated capillary liquid chromatography for simultaneous determination of neuroactive amines and amino acids 962(2002)105

Nitramines

Cyclodextrin-assisted capillary electrophoresis for determination of the cyclic nitramine explosives RDX, HMX and CL-20. Comparison with high-performance liquid chromatography 999(2003)17

Nitrate

Non-linear calibration functions in ion chromatography with suppressed conductivity detection using hydroxide eluents 957(2002)99

Determination of nitrate in seawater by capillary zone electrophoresis with chloride-induced sample self-stacking 966(2002)205

Optimization of artificial neural networks used for retention modelling in ion chromatography 973(2002)47

Nitrate esters

Identification of nitrate ester explosives by liquid chromatography–electrospray ionization and atmospheric pressure chemical ionization mass spectrometry 977(2002)59

Nitric acid

Retention behavior of common mono- and divalent cations on calcinated silica gel columns in ion chromatography with conductimetric detection and the use of nitric acid, containing crown ethers, as eluents 956(2002)159

Potential of electrophilic epoxide reactions for the monitoring of acid gases in the environment 977(2002)251

Determination of chloride and sulfate in semiconductor-grade etchants comprised of acetic acid, nitric acid and phosphoric acid 997(2003)269

Nitrite

Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77

Optimization of artificial neural networks used for retention modelling in ion chromatography 973(2002)47

Determination of inorganic corrosion inhibitors in heat transfer systems by ion chromatography 997(2003)285

Nitroalkanes

Minimum in the temperature dependence of the Kováts retention indices of nitroalkanes and alkanenitriles on an apolar phase 985(2003)11

Nitroaniline

Role of buffer concentration and applied voltage in obtaining a good separation in planar electrochromatography 983(2003)247

Nitroaromatic compounds

On-line coupling of supercritical fluid extraction with high-performance liquid chromatography for the determination of explosives in vapour phases 963(2002)73

3-Nitrobenzanthrone

Determination of 3-nitrobenzanthrone in surface soil by normal-phase high-performance liquid chromatography with fluorescence detection 992(2003)101

4-Nitrobenzenediazonium ion

Monitoring dediazonation product formation by high-performance liquid chromatography after derivatization 989(2003)221

Nitrobenzenes

Separation and determination of nitrobenzenes by micellar electrokinetic chromatography and high-performance liquid chromatography 979(2002)439

Nitrobenzenesulfonate

Mass spectrometric strategies for the analysis of polar industrial chemicals and their by-products in wastewater and surface water 974(2002)111

Nitrogen compounds

Sulfur and nitrogen chemiluminescence detection in gas chromatographic analysis (Review) 976(2002)3

Nitroglycerin

Identification of nitrate ester explosives by liquid chromatography–electrospray ionization and atmospheric pressure chemical ionization mass spectrometry 977(2002)59

Nitroimidazoles

Determination of five nitroimidazoles in water by liquid chromatography–mass spectrometry 978(2002)243

Nitrophenols

Solid-phase microextraction coupled to high-performance liquid chromatography to determine phenolic compounds in water samples 953(2002)79

Analysis of polar pesticides in rainwater in Denmark by liquid chromatography–tandem mass spectrometry 957(2002)27

Non-covalent and semi-covalent molecularly imprinted polymers for selective on-line solid-phase extraction of 4-nitrophenol from water samples 963(2002)169

Separation and determination of phenolic compounds by capillary electrophoresis with chemiluminescence detection 978(2002)213

Separation and determination of nitrobenzenes by micellar electrokinetic chromatography and high-performance liquid chromatography 979(2002)439

Phase-transfer catalytic determination of phenols as methylated derivatives by gas chromatography with flame ionization and mass-selective detection 983(2003)215

On-line solid-phase extraction with molecularly imprinted polymers to selectively extract substituted 4-chlorophenols and 4-nitrophenol from water 995(2003)233

Nitrosamines

Optimization of parameters for the supercritical fluid extraction in the determination of N-nitrosamines in rubbers 963(2002)419

Determination of N-nitrosamines in latex by sequential supercritical fluid extraction and derivatization 976(2002)301

Determination of nitrosamines in preserved sausages by solid-phase extraction–micellar electrokinetic chromatography 985(2003)503

Nitrosodiphenylamine

Gradient reversed-phase liquid chromatographic-electrospray ionization mass spectrometric method for the comparison of smokeless powders 988(2003)107

Nitrotoluenes

On-line coupling of supercritical fluid extraction with high-performance liquid chromatography for the determination of explosives in vapour phases 963(2002)73

Nitrotyrosine

Choice of different dyes to label tyrosine and nitrotyrosine 979(2002)209

Nodularins

Analysis of cyanobacterial hepatotoxins in water samples by microbore reversed-phase liquid chromatography–electrospray ionisation mass spectrometry 959(2002)103

Nonane

Characterization of polyarylamide fibers by inverse gas chromatography 962(2002)153

Nonenal

Determination of E-2-nonenal by high-performance liquid chromatography with UV detection. Assay for the evaluation of beer ageing 985(2003)395

Non-polar compounds

Strategies for the liquid chromatographic–mass spectrometric analysis of non-polar compounds 1000(2003)549

Nonsteroidal anti-inflammatory drugs

see also Profens

Capillary electrochromatographic separation of non-steroidal anti-inflammatory drugs with a histidine bonded phase 982(2002)293

Separation of negatively charged nonsteroidal anti-inflammatory drugs by reversed-phase capillary electrochromatography 984(2003)283

Determination of acidic drugs in sewage water by gas chromatography–mass spectrometry as *tert*-butyldimethylsilyl derivatives 985(2003)265

Enantiomeric separation of acidic compounds of pharmaceutical interest by capillary electrochromatography employing glycopeptide antibiotic stationary phases 994(2003)227

Nonylphenol carboxylic acids

Liquid chromatographic–tandem mass spectrometric determination of nonylphenol polyethoxylates and nonylphenol carboxylic acids in surface water 961(2002)245

Nonylphenol polyethoxylates

Liquid chromatographic–tandem mass spectrometric determination of nonylphenol polyethoxylates and nonylphenol carboxylic acids in surface water 961(2002)245

Determination of nonylphenol polyethoxylates in household detergents by high-performance liquid chromatography 968(2002)143

Nonylphenols

Development of a solid-phase microextraction method for the determination of short-ethoxy-chain nonylphenols and their brominated analogs in raw and treated water 963(2002)159

Determination of nineteen 4-alkylphenol endocrine disrupters in Geneva municipal sewage wastewater 976(2002)335

Trace analysis of technical nonylphenol, bisphenol A and 17 α -ethynylestradiol in wastewater using solid-phase microextraction and gas chromatography–mass spectrometry 988(2003)41

Norgestrel

Quantitative approach for the screening of cyclodextrins by nuclear magnetic resonance spectroscopy in support of chiral separations in liquid chromatography and capillary electrophoresis. Enantioseparation of norgestrel with α -, β - and γ -cyclodextrins 961(2002)257

Nor-isoprenoid

Determination of minor and trace volatile compounds in wine by solid-phase extraction and gas chromatography with mass spectrometric detection 966(2002)167

Novolacs

Pyrolysis–gas chromatography–mass spectrometry of cured phenolic resins 993(2003)131

Nucleic acids

see also DNA

Perspectives on analyses of nucleic acid constituents: the basis of genomics (Review) 965(2002)163

Nucleobases

Perspectives on analyses of nucleic acid constituents: the basis of genomics (Review) 965(2002)163

Nucleosides

Perspectives on analyses of nucleic acid constituents: the basis of genomics (Review) 965(2002)163

Determination of the enantiomeric purity of nucleoside analogs related to d4T and acyclovir, new potential antiviral agents, using liquid chromatography on cellulose chiral stationary phases 972(2002)211

Nucleotide phosphates

Fast, efficient capillary electrophoresis method for measuring nucleotide degradation and metabolism 952(2002)275

Nucleotides

see also Oligonucleotides, Polynucleotides and Special Issue Index

Fast, efficient capillary electrophoresis method for measuring nucleotide degradation and metabolism 952(2002)275

Perspectives on analyses of nucleic acid constituents: the basis of genomics (Review) 965(2002)163

Capillary liquid chromatographic–high-resolution mass spectrometric analysis of ribonucleotides 976(2002)135

Determination of pyridine and adenine nucleotide metabolites in *Bacillus subtilis* cell extract by sweeping borate complexation capillary electrophoresis 989(2003)293

Nylon

see Polyamides

O**Ochratoxin A**

Optimization of solid-phase clean-up prior to liquid chromatographic analysis of ochratoxin A in roasted coffee 959(2002)327

Octadecatrienoic acids

Separation of conjugated trienoic fatty acid isomers by capillary electrophoresis 985(2003)471

Octakis(2,3-dimethyl-6-*O*-sulfo)- γ -cyclodextrin

Electrophoretic enantiomer separations at high pH using the new, single-isomer octakis(2,3-dimethyl-6-*O*-sulfo)- γ -cyclodextrin as chiral resolving agent 990(2003)63

Octanesulfonates

Optimisation by experimental design of a capillary electrophoretic method for the separation of several inhibitors of angiotensin-converting enzyme using alkylsulphonates 978(2002)231

Octanol

Carrier gas as a new factor influencing the selectivity of the gas–stationary liquid phase chromatographic system 985(2003)57

Octyldimethylaminobenzoic acid

Gas chromatographic determination of 2-hydroxy-4-methoxybenzophenone and octyldimethyl-*p*-aminobenzoic acid sunscreen agents in swimming pool and bathing waters by solid-phase microextraction 967(2002)243

Octylthioglucopyranoside

Chiral separation of amino acids by capillary electrophoresis with octyl- β -thioglucopyranoside as chiral selector 978(2002)221

1-Octyne

Synthesis and evaluation of a C₈ stationary phase on a silica hydride surface by hydrosilation of 1-octyne 992(2003)57

Ofloxacin

Pharmacokinetic study of levofloxacin in rat blood and bile by microdialysis and high-performance liquid chromatography 961(2002)131

Quantitation of the enantiomers of ofloxacin by capillary electrophoresis in the parts per billion concentration range for in vitro drug absorption studies 988(2003)135

Oleoypalmitoylphosphatidyl choline

Application of capillaries with minimized electroosmotic flow to the electrokinetic study of acidic drug- β -oleoyl- γ -palmitoyl-L- α -phosphatidyl choline liposome interactions 990(2003)205

Oligodimethylsiloxane

Elution behavior of polyethylene in polar mobile phases on a non-polar sorbent 988(2003)69

Oligogalacturonates

Structural characterization by both positive and negative electrospray ion trap mass spectrometry of oligogalacturonates purified by high-performance anion-exchange chromatography 984(2003)185

Oligoguluronic acids

Analysis of oligoguluronic acids with NMR, electrospray ionization-mass spectrometry and high-performance anion-exchange chromatography 968(2002)71

Oligolysines

In vitro comparison of complementary interactions between synthetic linear/branched oligo/poly-L-lysines and tissue plasminogen activator by means of high-performance monolithic-disk affinity chromatography 992(2003)109

Oligomers

Molecular modelling of chain end effects in separating oligomers by reversed-phase gradient polymer elution chromatography; adsorption transition as revealed by a self-consistent-field theory for polymer adsorption 959(2002)37

Liquid chromatography of polyethylene glycol mono- and diesters: functional macromolecules or block copolymers? 984(2003)29

Oligonucleotides

see also Nucleotides

Ion-pair reversed-phase high-performance liquid chromatography analysis of oligonucleotides: Retention prediction 958(2002)167

Micropreparative fractionation of DNA fragments on metathesis-based monoliths: influence of stoichiometry on separation 959(2002)121

Oligonucleotide trapping method for purification of transcription factors 966(2002)99

Oligonucleotide covalent modifications by estrogen quinones evidenced by use of liquid chromatography coupled to negative electrospray ionization tandem mass spectrometry 976(2002)123

Potential binding of borate ions to mono- and oligonucleotides: a capillary electrophoresis investigation 979(2002)285

Performance of capillary gel electrophoretic analysis of oligonucleotides coupled on-line with electrospray mass spectrometry 991(2003)129

Oligosaccharides

see also Saccharides

Conductivity detection for molecular mass estimation of per-*O*-sulfonated glycosaminoglycans separated by high-performance size-exclusion chromatography 959(2002)95

Simultaneous analysis of monosaccharides and oligosaccharides by high-performance liquid chromatography with postcolumn fluorescence derivatization 961(2002)77

Simultaneous microanalysis of *N*-linked oligosaccharides in a glycoprotein using microbore graphitized carbon column liquid chromatography-mass spectrometry 968(2002)89

Structural analysis of a glycoprotein by liquid chromatography-mass spectrometry and liquid chromatography with tandem mass spectrometry. Application to recombinant human thrombomodulin 978(2002)141

Analysis of chitin oligosaccharides by capillary electrophoresis with laser-induced fluorescence 979(2002)431

Dextrin characterization by high-performance anion-exchange chromatography-pulsed amperometric detection and size-exclusion chromatography-multi-angle light scattering-refractive index detection 997(2003)79

OmpF porin

Characterization of the refolding and reassembly of an integral membrane protein OmpF porin by low-angle laser light scattering photometry coupled with high-performance gel chromatography 961(2002)137

Opiates

Separation of opiate alkaloids by electrokinetic chromatography with sulfated-cyclodextrin as a pseudo-stationary phase 985(2003)493

Rapid identification and quantitation of compounds with forensic interest using fast liquid chromatography-ion trap mass spectrometry and library searching 994(2003)93

Organic acids

see also Carboxylic acids, Fatty acids and Hydroxy acids

Electroosmotic flow controllable coating on a capillary surface by a sol-gel process for capillary electrophoresis 952(2002)255

- Determination of benzy succinic acid in gasoline-contaminated groundwater by solid-phase extraction coupled with gas chromatography–mass spectrometry 953(2002)215
- Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259
- Rapid determination of minority organic acids in honey by high-performance liquid chromatography 955(2002)207
- Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77
- Determination of anions at trace levels in power plant water samples by ion chromatography with electrolytic eluent generation and suppression 956(2002)129
- Determination of total acidity and of divalent cations by ion chromatography with *n*-hexadecylphosphocholine as the stationary phase 956(2002)139
- Applications of ion chromatography in cane sugar research and process problems 956(2002)187
- Applications of ion chromatography with electrospray mass spectrometric detection to the determination of environmental contaminants in water 956(2002)245
- Analysing fluorobenzoate tracers in groundwater samples using liquid chromatography–tandem mass spectrometry. A tool for leaching studies and hydrology 957(2002)11
- Determination of oxanilic and sulfonic acid metabolites of acetochlor in soils by liquid chromatography–electrospray ionisation mass spectrometry 957(2002)69
- Non-linear calibration functions in ion chromatography with suppressed conductivity detection using hydroxide eluents 957(2002)99
- Organic modifiers for the separation of organic acids and bases by liquid chromatography 964(2002)91
- Simple method for reversed-phase high-performance liquid chromatographic analysis of fungal pigments in fruit-bodies of Boletales (Fungi) 964(2002)129
- Quantification of sugars and organic acids in hygroscopic pharmaceutical herbal dry extracts 968(2002)101
- Separation and determination of organic acids and phenolic compounds in fruit juices and drinks by high-performance liquid chromatography 977(2002)89
- Electrophoretic separations with polyether ether ketone capillaries and capacitively coupled contactless conductivity detection 978(2002)205
- Separation and identification of aromatic acids in soil and the Everglades sediment samples using solid-phase microextraction followed by capillary zone electrophoresis 979(2002)417
- Determination of maleic anhydride in occupational atmospheres 982(2002)261
- Quantitation of formate by solid-phase microextraction and gas chromatography–mass spectrometry utilizing a [¹³C]formate internal standard 986(2003)313
- Analysis of low-molecular-mass organic acids using capillary zone electrophoresis–electrospray ionization mass spectrometry 988(2003)127
- Determination of organic acids in tobacco by capillary isotachopheresis 988(2003)161
- Development and optimization of a method for the analysis of low-molecular-mass organic acids in plants by capillary electrophoresis with indirect UV detection 989(2003)285
- Advances in methodology for the validation of methods according to the International Organization for Standardization. Application to the determination of benzoic and sorbic acids in soft drinks by high-performance liquid chromatography 992(2003)11
- Comprehensive chemical derivatization for gas chromatography–mass spectrometry-based multi-targeted profiling of the major phytohormones 993(2003)89
- Separation of haloacetic acids in water by capillary zone electrophoresis with direct UV detection and contactless conductivity detection 993(2003)143
- Modification and validation of the pyromellitic acid electrolyte for the capillary electrophoretic determination of anions 995(2003)217
- Modification of ion chromatographic separations by ionic and nonionic surfactants 997(2003)21
- Environmental applications of a cryptand adjustable-capacity anion-exchange separator 997(2003)33
- Highly sensitive indirect photometric detection of cations by capillary electrophoresis with the cationic dye chrysoidine 997(2003)87
- Vacancy ion-exclusion chromatography of haloacetic acids on a weakly acidic cation-exchange resin 997(2003)133

Organic bases

Organic modifiers for the separation of organic acids and bases by liquid chromatography 964(2002)91

Organic peroxides

Determination of organic peroxides by liquid chromatography with on-line post-column ultraviolet irradiation and peroxyoxalate chemiluminescence detection 987(2003)189

Organobromine compounds

Development of a solid-phase microextraction method for the determination of short-ethoxy-chain nonylphenols and their brominated analogs in raw and treated water 963(2002)159

New strategy for comprehensive analysis of polybrominated diphenyl ethers, polychlorinated dibenzo-*p*-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls by gas chromatography coupled with mass spectrometry 998(2003)169

Organochlorine compounds

Computer-assisted automatic peak recognition and result evaluation for analysis of chlorinated hydrocarbons in environmental samples 957(2002)37

Determination of pesticide residues in coconut water by liquid–liquid extraction and gas chromatography with electron-capture plus thermionic specific detection and solid-phase extraction and high-performance liquid chromatography with ultraviolet detection 957(2002)201

Influence of chromatographic conditions on separation in comprehensive gas chromatography 962(2002)135

Comparison of three different poly(dimethylsiloxane)–divinylbenzene fibres for the analysis of pesticide multiresidues in water samples: structure and efficiency 963(2002)19

Comparison of different coatings in solid-phase microextraction for the determination of organochlorine pesticides in ground water 963(2002)95

Determination of organochlorine pesticides in ground water using solid-phase microextraction followed by dual-column gas chromatography with electron-capture detection 964(2002)21

Multiresidue method for the simultaneous determination of four groups of pesticides in ground and drinking waters, using solid-phase microextraction–gas chromatography with electron-capture and thermionic specific detection 968(2002)177

Determination of organochlorine pesticides in seawater using liquid-phase hollow fibre membrane microextraction and gas chromatography–mass spectrometry 968(2002)191

Recent advances in the mass spectrometric analysis related to endocrine disrupting compounds in aquatic environmental samples 974(2002)23

Determination of pesticides in waters by capillary gas chromatography with atomic emission detection 978(2002)249

Methods for selective determination of persistent organochlorine pesticide residues in water and sediments by capillary gas chromatography and electron-capture detection 983(2003)225

Fast supercritical fluid extraction and high-resolution gas chromatography with electron-capture and flame photometric detection for multiresidue screening of organochlorine and organophosphorus pesticides in Brazil's medicinal plants 985(2003)159

Rapid analytical method for the determination of pesticide residues in sunflower seeds based on focused microwave-assisted Soxhlet extraction prior to gas chromatography–tandem mass spectrometry 993(2003)121

Identification and confirmation of traces of chlorinated fatty acids in fish downstream of bleached kraft pulp mills by gas chromatography with halogen-specific detection 994(2003)137

Attempt to unravel the composition of toxaphene by comprehensive two-dimensional gas chromatography with selective detection 994(2003)179

Coupling solid-phase microextraction and high-performance liquid chromatography for direct and sensitive determination of halogenated fungicides in wine 995(2003)135

Isolation of chlorinated fatty acid methyl esters derived from cell-culture medium and from fish lipids by using an aminopropyl solid-phase extraction column 996(2003)173

Vacancy ion-exclusion chromatography of haloacetic acids on a weakly acidic cation-exchange resin 997(2003)133

New strategy for comprehensive analysis of polybrominated diphenyl ethers, polychlorinated dibenzo-*p*-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls by gas chromatography coupled with mass spectrometry 998(2003)169

Solid-phase microextraction fibre–water distribution constants of more hydrophobic organic compounds and their correlations with octanol–water partition coefficients 999(2003)35

Analysis of 35 priority semivolatiles in water by stir bar sorptive extraction–thermal desorption–gas chromatography–mass spectrometry. I. Method optimisation 999(2003)91

Developments in the use of chromatographic techniques in marine laboratories for the determination of halogenated contaminants and polycyclic aromatic hydrocarbons 1000(2003)223

Organo–clay complex

Wall-coated open-tubular column chromatography on an organo–clay stationary phase 973(2002)143

Organoiodide compounds

Analysis of alkyl organoiodide mixtures by high-performance liquid chromatography using electrochemical detection with a post-column photochemical reactor 976(2002)423

Organomercury compounds

Methylmercury determination in biological samples by derivatization, solid-phase microextraction and gas chromatography with microwave-induced plasma atomic emission spectrometry 963(2002)313

Determination of methylmercury in human hair by ethylation followed by headspace solid-phase microextraction–gas chromatography–cold-vapour atomic fluorescence spectrometry 963(2002)345

Speciation analysis for mercury in gas condensates by capillary gas chromatography with inductively coupled plasma mass spectrometric detection 976(2002)431

Organophosphates

Dynamic sonication-assisted solvent extraction of organophosphate esters in air samples 957(2002)227

Determination of organophosphate esters in air samples by dynamic sonication-assisted solvent extraction coupled on-line with large-volume injection gas chromatography utilizing a programmed-temperature vaporizer 993(2003)103

Organophosphorus compounds

Selective stationary phase for solid-phase microextraction analysis of sarin (GB) 954(2002)217

Gas chromatographic–mass spectrometric separation and identification of combustion products of organo-phosphorus and chlorine pesticides and evaluation of their impact on the environment 954(2002)227

Determination of pesticide residues in coconut water by liquid–liquid extraction and gas chromatography with electron-capture plus thermionic specific detection and solid-phase extraction and high-performance liquid chromatography with ultraviolet detection 957(2002)201

Dynamic sonication-assisted solvent extraction of organophosphate esters in air samples 957(2002)227

Analysis of glyphosate, glufosinate and aminomethylphosphonic acid by capillary electrophoresis with indirect fluorescence detection 959(2002)309

Comments on “Ion-exchange liquid chromatographic analysis of bisphosphonates by on-line post-column photochemical reaction and spectrophotometric detection” [J. Chromatogr. A 914 (2001) 105–110] 961(2002)293

Development of an analytical methodology for sarin (GB) and soman (GD) in various military-related wastes 962(2002)183

Comparison of three different poly(dimethylsiloxane)–divinylbenzene fibres for the analysis of pesticide multiresidues in water samples: structure and efficiency 963(2002)19

Determination of alkylphosphonic acids using micellar electrokinetic chromatography with laser-induced fluorescence detection and high-salt stacking 966(2002)239

Multiresidue method for the simultaneous determination of four groups of pesticides in ground and drinking waters, using solid-phase microextraction–gas chromatography with electron-capture and thermionic specific detection 968(2002)177

Determination of atrazine and four organophosphorus pesticides in ground water using solid phase microextraction (SPME) followed by gas chromatography with selected-ion monitoring 972(2002)183

Flame photometric detector for thin-layer chromatography 973(2002)151

Determination of pesticides in waters by capillary gas chromatography with atomic emission detection 978(2002)249

Separation of aromatic aminophosphonic acid enantiomers by capillary electrophoresis with the application of cyclodextrins 979(2002)115

Development of a gas chromatography–mass spectrometry method for the determination of household insecticides in indoor air 985(2003)147

Fast supercritical fluid extraction and high-resolution gas chromatography with electron-capture and flame photometric detection for multiresidue screening of organochlorine and organophosphorus pesticides in Brazil’s medicinal plants 985(2003)159

Headspace solid-phase microextraction in combination with gas chromatography–mass spectrometry for the rapid screening of organophosphorus insecticide residues in strawberries and cherries 993(2003)197

Simultaneous analysis of biologically active aminoalkanephosphonic acids 998(2003)183

Analysis of 35 priority semivolatile compounds in water by stir bar sorptive extraction–thermal desorption–gas chromatography–mass spectrometry. I. Method optimisation 999(2003)91

Organoselenium compounds

Solid-phase extraction for the simultaneous preconcentration of organic (selenocystine) and inorganic [Se(IV), Se(VI)] selenium in natural waters 963(2002)185

Development of new analytical methods for selenium speciation in selenium-enriched yeast material 976(2002)409

Determination of selenium compounds in urine by high-performance liquid chromatography–inductively coupled plasma mass spectrometry 997(2003)249

Organosulfur compounds

see also Sulfur compounds

Accurate mass analysis of ethanesulfonic acid degradates of acetochlor and alachlor using high-performance liquid chromatography and time-of-flight mass spectrometry 957(2002)3

Electrophoretic studies on the chelating tendency of bioactive sulphur-containing amino acids. The metal–methylcysteine–cysteine system 962(2002)233

Aroma analysis of fresh and preserved onions and leek by dual solid-phase microextraction–liquid extraction and gas chromatography–mass spectrometry 963(2002)89

Determination of volatile alkyl sulfides in wastewater by headspace solid-phase microextraction followed by gas chromatography–mass spectrometry 963(2002)249

Determination of chiral sulfoxides in plasma by normal-phase liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 964(2002)161

Preparative separation of isomeric sulfophthalic acids by conventional and pH-zone-refining counter-current chromatography 966(2002)111

Selective enrichment of sulfides, thiols and methylthiophosphates from water samples on metal-loaded cation-exchange materials for gas chromatographic analysis 968(2002)171

Application of headspace solid-phase microextraction and gas chromatography–mass spectrometry for detection of the chemical warfare agent bis(2-chloroethyl) sulfide in soil 971(2002)185

High-performance liquid chromatographic separation and indirect fluorescence detection of thiols 972(2002)221

Flame photometric detector for thin-layer chromatography 973(2002)151

Gas and liquid chromatography of metal chelates of pentamethylene dithiocarbamate 973(2002)235

Evidence for oligomerization of metallothioneins in their functional state 979(2002)249

Ion trap tandem mass spectrometric identification of thiabendazole phototransformation products on titanium dioxide 984(2003)59

High-performance ion-pair chromatography method for simultaneous analysis of alliin, deoxyalliin, alliin and dipeptide precursors in garlic products using multiple mass spectrometry and UV detection 991(2003)69

Analysis of naphthalenesulfonate compounds by cyclodextrin-mediated capillary electrophoresis with sample stacking 996(2003)205

Use of disposable gold working electrodes for cation chromatography–integrated pulsed amperometric detection of sulfur-containing amino acids 997(2003)73

Organotin compounds

Analysis of organotin compounds by grignard derivatization and gas chromatography–ion trap tandem mass spectrometry 962(2002)197

Rapid determination of butyltin species in water samples by multicapillary gas chromatography with atomic emission detection following headspace solid-phase microextraction 963(2002)195

Gas chromatography–high-resolution mass spectrometry based method for the simultaneous determination of nine organotin compounds in water, sediment and tissue 975(2002)319

Determination of butyltin compounds in surface sediments from the São Paulo State coast (Brazil) by gas chromatography–pulsed flame photometric detection 985(2003)205

Physico-chemical approach to study organotin sorption–desorption during solid-phase microextraction 999(2003)61

Rapid determination of organotin compounds by headspace solid-phase microextraction 999(2003)123

Orosomucoid

Collection of α_1 -acid glycoprotein molecular species by capillary electrophoresis and the analysis of their molecular masses and carbohydrate chains. Basic studies on the analysis of glycoprotein glycoforms 958(2002)273

Orotic acid

Determination of orotic acid in urine by capillary zone electrophoresis in tandem-coupled columns with diode array detection 990(2003)121

γ -Oryzanol

Coupled liquid chromatography–gas chromatography for the rapid analysis of γ -oryzanol in rice lipids 985(2003)403

Osteocalcin

High-performance liquid chromatography–mass spectrometry and electron-capture dissociation tandem mass spectrometry of osteocalcin. Determination of γ -carboxyglutamic acid residues 962(2002)95

Ovalbumin

Erratum to "Characterization of enthalpic events in overloaded ion-exchange chromatography". [J. Chromatogr. A, 944 (2002) 61–68] 952(2002)301

Oxacillin

Chemiluminescence detection coupled to high-performance frontal analysis for the determination of unbound concentrations of drugs in protein binding equilibrium 952(2002)131

Oxalate

Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77

Oxalic acid

Simultaneous separation of common mono- and divalent cations on a calcinated silica gel column by ion chromatography with indirect photometric detection and aromatic monoamines–oxalic acid, containing crown ethers, used as eluent 956(2002)147

Oxanilic acid

Determination of oxanilic and sulfonic acid metabolites of acetochlor in soils by liquid chromatography–electrospray ionisation mass spectrometry 957(2002)69

Oxides

Effect of moisture on the surface free energy and acid–base properties of mineral oxides 969(2002)59

Oxoglutarate

Inhibition study of rhodanese by means of electrophoretically mediated microanalysis 990(2003)189

Oxyhalides

US Environmental Protection Agency Method 326.0, a new method for monitoring inorganic oxyhalides and optimization of the postcolumn derivatization for the selective determination of trace levels of bromate 956(2002)93

P

Paeonol

Solid-phase microextraction from small volumes of sample in a glass capillary 988(2003)25

Palladium

Ion chromatography with inductively coupled plasma mass spectrometry, a powerful analytical tool for complex matrices. Estimation of Pt and Pd in environmental samples 997(2003)51

Panacyl bromide

Determination of alkylphosphonic acids using micellar electrokinetic chromatography with laser-induced fluorescence detection and high-salt stacking 966(2002)239

Parabens

Comparing micellar electrokinetic chromatography and microemulsion electrokinetic chromatography for the analysis of preservatives in pharmaceutical and cosmetic products 993(2003)153

Paraquat

Liquid chromatography–electrospray ionization isotope dilution mass spectrometry analysis of paraquat and diquat using conventional and multilayer solid-phase extraction cartridges 958(2002)25

Electromigration dispersion in capillary zone electrophoresis. Experimental validation of use of the Haarhoff–Van der Linde function 959(2002)229

Analysis of the herbicides paraquat, diquat and difenzoquat in drinking water by micellar electrokinetic chromatography using sweeping and cation selective exhaustive injection 961(2002)65

Parathion

Determination of atrazine and four organophosphorus pesticides in ground water using solid phase microextraction (SPME) followed by gas chromatography with selected-ion monitoring 972(2002)183

Pectenotoxins

Liquid chromatography–mass spectrometry of spiroketal stereoisomers of pectenotoxins and the analysis of novel pectenotoxin isomers in the toxic dinoflagellate *Dinophysis acuta* from New Zealand 992(2003)141

Pectinase

Separation of enzymes by sequential macroaffinity ligand-facilitated three-phase partitioning 995(2003)127

Pediculariosides

Separation and determination of phenylpropanoid glycosides from *Pedicularis* species by capillary electrophoresis 986(2003)163

Penicillin G acylase

Evaluation of a penicillin G acylase-based chiral stationary phase towards a series of 2-aryloxyalkanoic acids, isosteric analogs and 2-arylpropionic acids 958(2002)131

Pentaerythritol

Stationary phase effects on the dynamic affinity of low-molecular-mass displacers 954(2002)127

Pentaerythritol tetranitrate

Identification of nitrate ester explosives by liquid chromatography–electrospray ionization and atmospheric pressure chemical ionization mass spectrometry 977(2002)59

Pentafluorobenzylhydroxylamine

Time-weighted average sampling of airborne *n*-valeraldehyde by a solid-phase microextraction device 954(2002)191

Gas chromatographic determination of glutaraldehyde in the workplace atmosphere after derivatization with *O*-(2,3,4,5,6-pentafluorobenzyl)hydroxylamine on a solid-phase microextraction fibre 955(2002)117

Pentafluoropyridine

Determination of 4-alkylphenols by novel derivatization and gas chromatography–mass spectrometry 984(2003)237

Pentahydroxyflavone

Determination of aluminum in environmental and biological samples by reversed-phase high-performance liquid chromatography via pre-column complexation with morin 993(2003)179

Pentamethylene dithiocarbamate

Gas and liquid chromatography of metal chelates of pentamethylene dithiocarbamate 973(2002)235

Pentane-2,4-diol

Different multidimensional chromatographic approaches applied to the study of wine malolactic fermentation 995(2003)161

Pentanol

Micellar liquid chromatography determination of B vitamins with direct injection and ultraviolet absorbance detection 984(2003)223

Analysis of food proteins and peptides by chromatography and mass spectrometry 1000(2003)609

Pentoxifilin

Automated storage of gas chromatography–mass spectrometry data in a relational database to facilitate compound screening and identification 974(2002)223

Analysis of food proteins and peptides by chromatography and mass spectrometry 1000(2003)609

Peptides

see also Special Issue Index

Kinetic study of the polymerization of α -amino acid *N*-carboxyanhydrides in aqueous solution using capillary electrophoresis 952(2002)239

Cycloaliphatic epoxy resin coating for capillary electrophoresis 952(2002)267

Capillary electrochromatography of peptides on a column packed with tentacular weak cation-exchanger particles 953(2002)239

Reversed-phase high-performance liquid chromatography method for the determination of prolactin in bacterial extracts and in its purified form 955(2002)229

Ion-pair reversed-phase liquid chromatography–electrospray mass spectrometry for the analysis of underivatized small peptides 957(2002)173

Chromatographic characterisation of an estrogen-binding affinity column containing tetrapeptides selected by a combinatorial-binding approach 966(2002)71

Immobilized artificial membrane chromatography coupled with atmospheric pressure ionization mass spectrometry 966(2002)81

Structural requirements for conserved Arg⁵² residue for interaction of the human immunodeficiency virus type 1 trans-activation responsive element with trans-activator of transcription protein (49–57). Capillary electrophoresis mobility shift assay 968(2002)211

Isolation and characterization of modified species of a mutated (Cys¹²⁵–Ala) recombinant human interleukin-2 971(2002)129

Reversed-phase liquid chromatography as a tool in the determination of the hydrophilicity/hydrophobicity of amino acid side-chains at a ligand–receptor interface in the presence of different aqueous environments. I. Effect of varying receptor hydrophobicity 972(2002)45

Reversed-phase liquid chromatography as a tool in the determination of the hydrophilicity/hydrophobicity of amino acid side-chains at a ligand–receptor interface in the presence of different aqueous environments. II. Effect of varying peptide ligand hydrophobicity 972(2002)61

Preparative reversed-phase liquid chromatography of peptides. Isocratic two-step elution system for high loads on analytical columns 972(2002)87

Investigations into the chromatographic behavior of a doxorubicin–peptide conjugate 973(2002)27

Structural analysis of a glycoprotein by liquid chromatography–mass spectrometry and liquid chromatography with tandem mass spectrometry. Application to recombinant human thrombomodulin 978(2002)141

Sample pre-concentration by isotachopheresis in microfluidic devices 979(2002)69

Miniaturized membrane-based reversed-phase chromatography and enzyme reactor for protein digestion, peptide separation, and protein identification using electrospray ionization mass spectrometry 979(2002)241

Extension of separation range in capillary isoelectric focusing for resolving highly basic biomolecules 979(2002)271

Investigations of cyclophilin interactions with oligopeptides containing proline by affinity capillary electrophoresis 982(2002)275

Determination of minor conformational changes of a doxorubicin–peptide conjugate under chromatographic conditions 983(2003)73

Protein proteolysis and the multi-dimensional electrochromatographic separation of histidine-containing peptide fragments on a chip 984(2003)97

Evaluation of chromatographic versus electrophoretic behaviour of a series of therapeutical peptide hormones 985(2003)411

Kinetic study of angiotensin converting enzyme activity by capillary electrophoresis after in-line reaction at the capillary inlet 986(2003)303

Separation of peptides by pressurized capillary electrochromatography 987(2003)453

Enantioseparation of dipeptides by capillary electrochromatography on a teicoplanin aglycone chiral stationary phase 990(2003)83

Use of short-end injection capillary packed with a glycopeptide antibiotic stationary phase in electrochromatography and capillary liquid chromatography for the enantiomeric separation of hydroxy acids 990(2003)143

High-performance ion-pair chromatography method for simultaneous analysis of alliin, deoxyalliin, allicin and dipeptide precursors in garlic products using multiple mass spectrometry and UV detection 991(2003)69

In vitro comparison of complementary interactions between synthetic linear/branched oligo/poly-L-lysines and tissue plasminogen activator by means of high-performance monolithic-disk affinity chromatography 992(2003)109

Advantages and limitations of coupling isotachopheresis and comprehensive isotachopheresis–capillary electrophoresis to time-of-flight mass spectrometry 992(2003)169

Development and validation of an improved method for the analysis of vancomycin by liquid chromatography. Selectivity of reversed-phase columns towards vancomycin components 996(2003)115

Recent liquid chromatographic–(tandem) mass spectrometric applications in proteomics 1000(2003)589

Perchlorates

Determination of trace level bromate and perchlorate in drinking water by ion chromatography with an evaporative preconcentration technique 956(2002)85

Applications of ion chromatography with electrospray mass spectrometric detection to the determination of environmental contaminants in water 956(2002)245

Determination of trace levels of haloacetic acids and perchlorate in drinking water by ion chromatography with direct injection 997(2003)225

Trace perchlorates in a radiological liquid-waste treatment facility 997(2003)243

Perfluorocarboxylic acids

Ion-pair reversed-phase liquid chromatography–electrospray mass spectrometry for the analysis of underivatized small peptides 957(2002)173

Perfluorodiether, chiral

Extraordinary chiral discrimination in inclusion gas chromatography. Thermodynamics of enantioselectivity between a racemic perfluorodiether and a modified γ -cyclodextrin 1000(2003)311

Permethrin

Isocratic reversed-phase liquid chromatographic method for the simultaneous determination of (*S*)-methoprene, MGK264, piperonyl butoxide, sumithrin and permethrin in pesticide formulation 983(2003)145

Peroxides

Capillary electrophoresis–electrochemistry microfluidic system for the determination of organic peroxides 952(2002)249

Determination of organic peroxides by liquid chromatography with on-line post-column ultraviolet irradiation and peroxyoxalate chemiluminescence detection 987(2003)189

Peroxyoxalate

Ultrasensitive chemiluminescence detection in capillary electrophoresis (Review) 959(2002)1

Multi-residue screening of pesticides in vegetables, fruits and baby food by stir bar sorptive extraction–thermal desorption–capillary gas chromatography–mass spectrometry 1000(2003)299

Pesticides

see also Special Issue Index

Study of the feasibility of focused microwave-assisted Soxhlet extraction of *N*-methylcarbamates from soil 953(2002)133

Determination of acaricides in honey by high-performance liquid chromatography with photodiode array detection 954(2002)173

- Gas chromatographic–mass spectrometric separation and identification of combustion products of organo-phosphorus and chlorine pesticides and evaluation of their impact on the environment 954(2002)227
- Determination of sulfonylurea herbicides by continuous-flow liquid membrane extraction on-line coupled with high-performance liquid chromatography 955(2002)183
- Accurate mass analysis of ethanesulfonic acid degradates of acetochlor and alachlor using high-performance liquid chromatography and time-of-flight mass spectrometry 957(2002)3
- Analysis of polar pesticides in rainwater in Denmark by liquid chromatography–tandem mass spectrometry 957(2002)27
- Computer-assisted automatic peak recognition and result evaluation for analysis of chlorinated hydrocarbons in environmental samples 957(2002)37
- Liquid chromatography–mass spectrometry method to determine alcohol ethoxylates and alkylamine ethoxylates in soil interstitial water, ground water and surface water samples 957(2002)45
- Some aspects of the analysis of environmental pollutants in sediments using pressurized liquid extraction and gas chromatography–mass spectrometry 957(2002)59
- Determination of oxanilic and sulfonic acid metabolites of acetochlor in soils by liquid chromatography–electrospray ionisation mass spectrometry 957(2002)69
- Analysis of Metribuzin and transformation products in soil by pressurized liquid extraction and liquid chromatographic–tandem mass spectrometry 957(2002)79
- Determination of pesticide residues in coconut water by liquid–liquid extraction and gas chromatography with electron-capture plus thermionic specific detection and solid-phase extraction and high-performance liquid chromatography with ultraviolet detection 957(2002)201
- Optimisation of a programmed split–splitless injector in the gas chromatographic–mass spectrometric determination of organochlorine pesticides 958(2002)17
- Liquid chromatography–electrospray ionization isotope dilution mass spectrometry analysis of paraquat and diquat using conventional and multilayer solid-phase extraction cartridges 958(2002)25
- Coupling continuous subcritical water extraction, filtration, preconcentration, chromatographic separation and UV detection for the determination of chlorophenoxy acid herbicides in soils 959(2002)25
- Liquid chromatographic method development for determination of fungicide epoxiconazole enantiomers by achiral and chiral column switching technique in water and soil 959(2002)143
- Analysis of phenoxyalkanoic acid herbicides and their phenolic conversion products in soil by microwave assisted solvent extraction and subsequent analysis of extracts by on-line solid-phase extraction–liquid chromatography 959(2002)153
- Application of gas chromatography–tandem mass spectrometry to the analysis of pesticides in fruits and vegetables 959(2002)203
- Electromigration dispersion in capillary zone electrophoresis. Experimental validation of use of the Haarhoff–Van der Linde function 959(2002)229
- Analysis of glyphosate, glufosinate and aminomethylphosphonic acid by capillary electrophoresis with indirect fluorescence detection 959(2002)309
- Trace determination of priority pesticides in water by means of high-speed on-line solid-phase extraction–liquid chromatography–tandem mass spectrometry using turbulent-flow chromatography columns for enrichment and a short monolithic column for fast liquid chromatographic separation 960(2002)109
- Analysis of the herbicides paraquat, diquat and difenzoquat in drinking water by micellar electrokinetic chromatography using sweeping and cation selective exhaustive injection 961(2002)65
- Correlation of retention parameters of pesticides in normal- and reversed-phase systems and their utilization for the separation of a mixture of 14 triazines and urea herbicides by means of two-dimensional thin-layer chromatography 961(2002)277
- Determination of metribuzin and major conversion products in soils by microwave-assisted water extraction followed by liquid chromatographic analysis of extracts 962(2002)9
- Influence of chromatographic conditions on separation in comprehensive gas chromatography 962(2002)135
- Rapid estimation of octanol–water partition coefficients using synthesized vesicles in electrokinetic chromatography 962(2002)207
- Comparison of three different poly(dimethylsiloxane)–divinylbenzene fibres for the analysis of pesticide multiresidues in water samples: structure and efficiency 963(2002)19
- Comparison of different coatings in solid-phase microextraction for the determination of organochlorine pesticides in ground water 963(2002)95
- Application of solid-phase microextraction in the monitoring of priority pesticides in the Kalamas River (N.W. Greece) 963(2002)107
- Rapid trace analysis of alachlor in water and vegetable samples 963(2002)125

- Application of on-line solid-phase extraction–gas chromatography–mass spectrometry to the determination of endocrine disruptors in water samples 963(2002)287
- Analysis of phenoxy herbicides in bovine milk by means of liquid–liquid–liquid microextraction with a hollow-fiber membrane 963(2002)335
- Determination of organochlorine pesticides in ground water using solid-phase microextraction followed by dual-column gas chromatography with electron-capture detection 964(2002)21
- Comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometric detection applied to the determination of pesticides in food extracts 965(2002)207
- Gradient elution in normal-phase high-performance liquid chromatographic systems 965(2002)239
- Determination of chlormequat and mepiquat in pear, tomato, and wheat flour using on-line solid-phase extraction (Prospekt) coupled with liquid chromatography–electrospray ionization tandem mass spectrometry 966(2002)15
- Matrix-effects of vegetable commodities in electron-capture detection applied to pesticide multiresidue analysis 966(2002)155
- Solid-phase microextraction and gas chromatography–mass spectrometry for the rapid screening of triazole residues in wine and strawberries 967(2002)255
- Multiresidue method for the simultaneous determination of four groups of pesticides in ground and drinking waters, using solid-phase microextraction–gas chromatography with electron-capture and thermionic specific detection 968(2002)177
- Determination of organochlorine pesticides in seawater using liquid-phase hollow fibre membrane microextraction and gas chromatography–mass spectrometry 968(2002)191
- Application of matrix solid-phase dispersion to the determination of a new generation of fungicides in fruits and vegetables 968(2002)201
- Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3
- Trace-level determination of pesticides in water by means of liquid and gas chromatography (Review) 970(2002)65
- Comparison of microextraction procedures to determine pesticides in oranges by liquid chromatography–mass spectrometry 970(2002)201
- Evaluation of a high-resolution time-of-flight mass spectrometer for the gas chromatographic determination of selected environmental contaminants 970(2002)213
- Determination of atrazine and four organophosphorus pesticides in ground water using solid phase microextraction (SPME) followed by gas chromatography with selected-ion monitoring 972(2002)183
- Determination of propamocarb in vegetables using polymer-based high-performance liquid chromatography coupled with electrospray mass spectrometry 972(2002)231
- Effect of solvents on the selectivity of terbutylazine imprinted polymer sorbents used in solid-phase extraction 973(2002)1
- Alternative calibration approaches to compensate the effect of co-extracted matrix components in liquid chromatography–electrospray ionisation tandem mass spectrometry analysis of pesticide residues in plant materials 973(2002)13
- Fast, high-sensitivity, multipesticide analysis of complex mixtures with supersonic gas chromatography–mass spectrometry 974(2002)185
- Capillary electrophoresis–mass spectrometry for the analysis of quaternary ammonium herbicides 974(2002)243
- Extractions with superheated water (Review) 975(2002)31
- On-line automated sample preparation for liquid chromatography using parallel supported liquid membrane extraction and microporous membrane liquid–liquid extraction 975(2002)211
- Combination of supported liquid membrane and solid-phase extraction for sample pretreatment of triazine herbicides in juice prior to capillary electrophoresis determination 975(2002)219
- Determination of pyrimethanil and kresoxim-methyl in green groceries by headspace solid-phase microextraction and gas chromatography–mass spectrometry 975(2002)355
- Optimization of solid-phase extraction and solid-phase microextraction for the determination of α - and β -endosulfan in water by gas chromatography–electron-capture detection 976(2002)293
- Multiresidue analysis of fungicides in soil by sonication-assisted extraction in small columns and gas chromatography 976(2002)319
- Determination of dichlorvos by on-line microwave-assisted extraction coupled to headspace solid-phase microextraction and gas chromatography–electron-capture detection 976(2002)349
- Analysis of polar pesticides in water and wine samples by automated in-tube solid-phase microextraction coupled with high-performance liquid chromatography–mass spectrometry 976(2002)357
- Fast and precise determination of phenthoate and its enantiomeric ratio in soil by the matrix solid-phase dispersion method and liquid chromatography 977(2002)17

- Determination of pesticides in waters by capillary gas chromatography with atomic emission detection 978(2002)249
- Multi-residue method for rapid screening and confirmation of pesticides in crude extracts of fruits and vegetables using isocratic liquid chromatography with electrospray tandem mass spectrometry 982(2002)225
- Simple method for the determination of trace levels of pesticides in honeybees using matrix solid-phase dispersion and gas chromatography 982(2002)267
- Determination of rotenone in river water utilizing packed capillary column switching liquid chromatography with UV and time-of-flight mass spectrometric detection 983(2003)43
- Elevated-temperature ultrahigh-pressure liquid chromatography using very small polybutadiene-coated nonporous zirconia particles 983(2003)83
- Isocratic reversed-phase liquid chromatographic method for the simultaneous determination of (*S*)-methoprene, MGK264, piperonyl butoxide, sumithrin and permethrin in pesticide formulation 983(2003)145
- Methods for selective determination of persistent organochlorine pesticide residues in water and sediments by capillary gas chromatography and electron-capture detection 983(2003)225
- Determination of dithiocarbamate pesticides in occupational hygiene sampling devices using the isooctane method and comparison with an automatic thermal desorption (ATD) method 984(2003)81
- Application of single-drop microextraction and comparison with solid-phase microextraction and solid-phase extraction for the determination of α - and β -endosulfan in water samples by gas chromatography–electron-capture detection 984(2003)245
- Automated hollow fiber-protected dynamic liquid-phase microextraction of pesticides for gas chromatography–mass spectrometric analysis 985(2003)107
- Development of a gas chromatography–mass spectrometry method for the determination of household insecticides in indoor air 985(2003)147
- Fast supercritical fluid extraction and high-resolution gas chromatography with electron-capture and flame photometric detection for multiresidue screening of organochlorine and organophosphorus pesticides in Brazil's medicinal plants 985(2003)159
- Determination of triazines in soil by microwave-assisted extraction followed by solid-phase microextraction and gas chromatography–mass spectrometry 985(2003)167
- On-fiber photodegradation after solid-phase microextraction of *p,p'*-DDT and two of its major photoproducts, *p,p'*-DDE and *p,p'*-DDD 985(2003)175
- Monolithic silica column for in-tube solid-phase microextraction coupled to high-performance liquid chromatography 985(2003)351
- Evaluation of the applicability and the stability of a C_{18} stationary phase containing embedded urea groups 987(2003)139
- Determination of herbicides and a metabolite in human urine by liquid chromatography–electrospray ionization mass spectrometry 987(2003)375
- Application of new high-performance liquid chromatography and solid-phase extraction materials to the analysis of pesticides in human urine 987(2003)381
- Condensation nucleation light scattering detection with ion chromatography for direct determination of glyphosate and its metabolite in water 989(2003)231
- Solid-phase extraction and sample stacking–micellar electrokinetic capillary chromatography for the determination of multiresidues of herbicides and metabolites 990(2003)291
- Multiresidue method for fourteen fungicides in white grapes by liquid–liquid and solid-phase extraction followed by liquid chromatography–diode array detection 992(2003)121
- Determination of abamectin and azadirachtin residues in orange samples by liquid chromatography–electrospray tandem mass spectrometry 992(2003)133
- Intercalibration of chromatographic methods for auxino phytodrugs in *Solanaceae* 993(2003)111
- Rapid analytical method for the determination of pesticide residues in sunflower seeds based on focused microwave-assisted Soxhlet extraction prior to gas chromatography–tandem mass spectrometry 993(2003)121
- Headspace solid-phase microextraction in combination with gas chromatography–mass spectrometry for the rapid screening of organophosphorus insecticide residues in strawberries and cherries 993(2003)197
- Screening and determination of pesticides in soil using continuous subcritical water extraction and gas chromatography–mass spectrometry 994(2003)169
- Trace analysis of sulfonylurea herbicides in water by on-line continuous flow liquid membrane extraction– C_{18} precolumn liquid chromatography with ultraviolet absorbance detection 995(2003)21
- Coupling solid-phase microextraction and high-performance liquid chromatography for direct and sensitive determination of halogenated fungicides in wine 995(2003)135
- Considerations on ultra trace analysis of carbamates in water samples 996(2003)133

Rapid multi-residue method for the determination of azinphos methyl, bromopropylate, chlorpyrifos, dimethoate, parathion methyl and phosalone in apricots and peaches by using negative chemical ionization ion trap technology 996(2003)181

Determination of endocrine-disrupting compounds in water samples by on-line solid-phase extraction–programmed-temperature vapourisation–gas chromatography–mass spectrometry 998(2003)41

Continuous ultrasound-assisted extraction coupled to on line filtration–solid-phase extraction–column liquid chromatography–post column derivatisation–fluorescence detection for the determination of *N*-methylcarbamates in soil and food 998(2003)51

Simultaneous analysis of biologically active aminoalkanephosphonic acids 998(2003)183

Optimization of the class-selective extraction of triazines from aqueous samples using a molecularly imprinted polymer by a comprehensive approach of the retention mechanism 999(2003)23

Solid-phase microextraction fibre–water distribution constants of more hydrophobic organic compounds and their correlations with octanol–water partition coefficients 999(2003)35

Analysis of 35 priority semivolatile compounds in water by stir bar sorptive extraction–thermal desorption–gas chromatography–mass spectrometry. I. Method optimisation 999(2003)91

Solid-phase microextraction for herbicide determination in environmental samples (Review) 999(2003)103

Matrix effects in (ultra)trace analysis of pesticide residues in food and biotic matrices 1000(2003)181

Developments in the use of chromatographic techniques in marine laboratories for the determination of halogenated contaminants and polycyclic aromatic hydrocarbons 1000(2003)223

Pharmalytes

Extension of separation range in capillary isoelectric focusing for resolving highly basic biomolecules 979(2002)271

Phenanthroline

Development of capillary electrophoresis for the determination of metal ions using mixed partial and complete complexation techniques 977(2002)135

Phenolic acids

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Matrix solid-phase dispersion for the liquid chromatographic determination of phenolic acids in *Melissa officinalis* 983(2003)271

Phenolic compounds

Capillary electrophoretic separation of phenolic diterpenes from rosemary 953(2002)251

In-line pressurized-fluid extraction–solid-phase extraction for determining phenolic compounds in grapes 968(2002)1

Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3

Analysis of wine phenolics by high-performance liquid chromatography using a monolithic type column 973(2002)221

Separation and determination of organic acids and phenolic compounds in fruit juices and drinks by high-performance liquid chromatography 977(2002)89

Quantitative structure–retention relationships of phenolic compounds without Hammett's equations 985(2003)343

Rapid and simultaneous analysis of some bioactive components in *Eucommia ulmoides* by capillary electrophoresis 989(2003)303

Quantitative determination of phenolic diterpenes in rosemary extracts. Aspects of accurate quantification 995(2003)119

Phenols

Solid-phase microextraction coupled to high-performance liquid chromatography to determine phenolic compounds in water samples 953(2002)79

Online coupling of pressurized liquid extraction, solid-phase extraction and high-performance liquid chromatography for automated analysis of proanthocyanidins in malt 958(2002)9

Influence of chromatographic conditions on separation in comprehensive gas chromatography 962(2002)135

Optimization of a derivatization–solid-phase microextraction method for the analysis of thirty phenolic pollutants in water samples 963(2002)137

Universal screening method for the determination of US Environmental Protection Agency phenols at the lower ng l⁻¹ level in water samples by on-line solid-phase extraction–high-performance liquid chromatography–atmospheric pressure chemical ionization mass spectrometry within a single run 963(2002)149

Retention of ionizable compounds in high-performance liquid chromatography. 14. Acid–base pK values in acetonitrile–water mobile phases 964(2002)55

Determination of minor and trace volatile compounds in wine by solid-phase extraction and gas chromatography with mass spectrometric detection 966(2002)167

Determination of phenols in landfill leachate-contaminated groundwaters by solid-phase extraction 972(2002)175

- Concentration of chlorophenols in water with sodium dodecylsulfate- γ -alumina admicelles for high-performance liquid chromatographic analysis 972(2002)205
- Fast liquid chromatography–electrochemistry–mass spectrometry of ferrocenecarboxylic acid esters 974(2002)103
- Sample handling strategies for the determination of biophenols in food and plants (Review) 975(2002)71
- Determination of nineteen 4-alkylphenol endocrine disrupters in Geneva municipal sewage wastewater 976(2002)335
- Separation and determination of phenolic compounds by capillary electrophoresis with chemiluminescence detection 978(2002)213
- Separation and on-line concentration of bisphenol A and alkylphenols by micellar electrokinetic chromatography with cationic surfactant 979(2002)425
- Phase-transfer catalytic determination of phenols as methylated derivatives by gas chromatography with flame ionization and mass-selective detection 983(2003)215
- Carrier gas as a new factor influencing the selectivity of the gas–stationary liquid phase chromatographic system 985(2003)57
- Liquid–liquid and solid-phase extractions of phenols from virgin olive oil and their separation by chromatographic and electrophoretic methods 985(2003)425
- On-line sample preconcentration in micellar electrokinetic chromatography by sweeping with anionic–zwitterionic mixed micelles 985(2003)435
- Conductive polymers as new media for solid-phase extraction: Isolation of chlorophenols from water sample 986(2003)111
- High-performance liquid chromatographic stationary phases based on poly(methyloctylsiloxane) immobilized on silica. III. Stability evaluations 987(2003)93
- On-column concentration of bisphenol A with one-step removal of humic acids in water 987(2003)389
- Binding of environmental pollutants to the corn protein zein studied by high-performance liquid chromatography 987(2003)403
- Determination of major phenolic compounds in water by reversed-phase liquid chromatography after pre-column derivatization with benzoyl chloride 988(2003)145
- Determination of single component isotherms and affinity energy distribution by chromatography 988(2003)185
- Capillary electrophoresis of methyl-substituted phenols in acetonitrile 990(2003)35
- Separation of polyphenolic compounds extracted from plant matrices using capillary electrophoresis 990(2003)225
- Optimisation of headspace solid-phase microextraction for the analysis of volatile phenols in wine 995(2003)11
- Effect of the mobile phase composition on the isotherm parameters and the high concentration band profiles in reversed-phase liquid chromatography 995(2003)37
- Analysis of proanthocyanidins by high-performance gel permeation chromatography 995(2003)99
- Simultaneous determination of “earthy-musty” odorous haloanisoles and their corresponding halophenols in water samples using solid-phase microextraction coupled to gas chromatography with electron-capture detection 999(2003)135
- Strategies for the determination of bioactive phenols in plants, fruit and vegetables 1000(2003)657
- Phenothiazines**
Enantioseparation of phenothiazines in cyclodextrin-modified micellar electrokinetic chromatography 971(2002)261
- Separation and migration behavior of structurally related phenothiazines in cyclodextrin-modified capillary zone electrophoresis 979(2002)399
- Phenoxy acids**
Coupling continuous subcritical water extraction, filtration, preconcentration, chromatographic separation and UV detection for the determination of chlorophenoxy acid herbicides in soils 959(2002)25
- Analysis of phenoxy herbicides in bovine milk by means of liquid–liquid–liquid microextraction with a hollow-fiber membrane 963(2002)335
- Intercalibration of chromatographic methods for auxino phytodrugs in *Solanaceae* 993(2003)111
- Phenoxyalkanoic acids**
Analysis of phenoxyalkanoic acid herbicides and their phenolic conversion products in soil by microwave assisted solvent extraction and subsequent analysis of extracts by on-line solid-phase extraction–liquid chromatography 959(2002)153
- Penthoate**
Fast and precise determination of penthoate and its enantiomeric ratio in soil by the matrix solid-phase dispersion method and liquid chromatography 977(2002)17
- Phenylalanine**
Improving separation efficiency of capillary zone electrophoresis of tryptophan and phenylalanine with the transient moving chemical reaction boundary method 952(2002)39

Phenylbenzimidazole sulphonic acid

Determination of water-soluble UV-filters in sunscreen sprays by liquid chromatography 977(2002)277

Phenylboronic acid

Selective extraction of salbutamol from human plasma with the use of phenylboronic acid 987(2003)257

1-Phenyl-2-butanol

Comparison of Chirasil-DEX CB as gas chromatographic and ULMO as liquid chromatographic chiral stationary phase for enantioseparation of aryl- and heteroarylcarbinols 992(2003)151

Phenylpropanoid glycosides

Separation and determination of phenylpropanoid glycosides from *Pedicularis* species by capillary electrophoresis 986(2003)163

1-Phenyl-1-propanol

Study of the adsorption equilibria of the enantiomers of 1-phenyl-1-propanol on cellulose tribenzoate using a microbore column 953(2002)55

Numerical determination of the competitive isotherm of enantiomers 986(2003)207

1-Phenyl-2-propanol

Comparison of Chirasil-DEX CB as gas chromatographic and ULMO as liquid chromatographic chiral stationary phase for enantioseparation of aryl- and heteroarylcarbinols 992(2003)151

Phenylureas

Gradient elution in normal-phase high-performance liquid chromatographic systems 965(2002)239

Optimization of the class-selective extraction of triazines from aqueous samples using a molecularly imprinted polymer by a comprehensive approach of the retention mechanism 999(2003)23

Phenytoin

Application of capillaries with minimized electroosmotic flow to the electrokinetic study of acidic drug- β -oleoyl- γ -palmitoyl-L- α -phosphatidyl choline liposome interactions 990(2003)205

Affinity electrochromatography of acidic drugs using a liposome-modified capillary 990(2003)281

Pheophorbides

Rapid separation of chlorophylls *a* and *b* and their demetallated and dephytylated derivatives using a monolithic silica C₁₈ column and a pyridine-containing mobile phase 994(2003)85

Pheophytins

Rapid separation of chlorophylls *a* and *b* and their demetallated and dephytylated derivatives using a monolithic silica C₁₈ column and a pyridine-containing mobile phase 994(2003)85

Phosphates

Fast, efficient capillary electrophoresis method for measuring nucleotide degradation and metabolism 952(2002)275

Dynamic sonication-assisted solvent extraction of organophosphate esters in air samples 957(2002)227

Optimization of artificial neural networks used for retention modelling in ion chromatography 973(2002)47

Capillary liquid chromatographic–high-resolution mass spectrometric analysis of ribonucleotides 976(2002)135

Determination of organic acids in tobacco by capillary isotachopheresis 988(2003)161

Determination of organophosphate esters in air samples by dynamic sonication-assisted solvent extraction coupled on-line with large-volume injection gas chromatography utilizing a programmed-temperature vaporizer 993(2003)103

Phosphatidylcholine

Flame photometric detector for thin-layer chromatography 973(2002)151

Salt effects on the interaction of an amphiphilic model molecule with immobilized phosphatidylcholine monolayers 977(2002)185

Phosphine

Determination of phosphine in biogas and sludge at ppt-levels with gas chromatography–thermionic specific detection 952(2002)229

Phosphodiester

Performance of capillary gel electrophoretic analysis of oligonucleotides coupled on-line with electrospray mass spectrometry 991(2003)129

Phospholipids

Effect of emulsifiers on surface properties of sucrose by inverse gas chromatography 969(2002)97

Characterization of solvation properties of lipid bilayer membranes in liposome electrokinetic chromatography 973(2002)167

Phosphonate carbanion

Gas chromatographic analysis of the thermally unstable dimethyl methylphosphonate carbanion via trimethylsilyl derivatization 978(2002)177

Phosphonates

Selectivity behaviour of a bonded phosphonate–carboxylate polymeric ion exchanger for metal cations with varying eluent compositions 997(2003)3

Phosphonic acids

Capillary electrophoretic and thin-layer chromatographic characterization of rhenium complexation with 1-hydroxyethylidenediphosphonic acid 990(2003)317

Phosphoramidates

Liquid chromatographic separation of phosphoramidate diastereomers on a polysaccharide-type chiral stationary phase 983(2003)115

Phosphoric acids

Automated trace anion determinations in concentrated electronic grade phosphoric acid by ion chromatography 956(2002)121

Analysis of glyphosate, glufosinate and aminomethylphosphonic acid by capillary electrophoresis with indirect fluorescence detection 959(2002)309

Determination of chloride and sulfate in semiconductor-grade etchants comprised of acetic acid, nitric acid and phosphoric acid 997(2003)269

Phosphorus

Simultaneous capillary electrophoretic separation and detection of P(V) and As(V) as heteropoly-blue complexes 966(2002)213

Phthalates

Influence of chromatographic conditions on separation in comprehensive gas chromatography 962(2002)135

Application of on-line solid-phase extraction–gas chromatography–mass spectrometry to the determination of endocrine disruptors in water samples 963(2002)287

Analysis of mono- and diesters of *o*-phthalic acid by solid-phase extractions with polystyrene–divinylbenzene-based polymers 963(2002)393

Determination of adipate plasticizers in poly(vinyl chloride) by microwave-assisted extraction 963(2002)401

Recent advances in the mass spectrometric analysis related to endocrine disrupting compounds in aquatic environmental samples 974(2002)23

MultiSimplex optimisation of the solid-phase microextraction–gas chromatographic–mass spectrometric determination of polycyclic aromatic hydrocarbons, polychlorinated biphenyls and phthalates from water samples 978(2002)165

Gas chromatography–mass spectrometry determination of the migration of phthalate plasticisers from polyvinyl chloride toys and childcare articles 983(2003)237

Simultaneous extraction of di(2-ethylhexyl) phthalate and nonionic surfactants from house dust. Concentrations in floor dust from 15 Danish schools 986(2003)179

Use of synthetic adsorbents in preparative normal-phase liquid chromatography 989(2003)19

Determination of endocrine-disrupting compounds in water samples by on-line solid-phase extraction–programmed-temperature vaporisation–gas chromatography–mass spectrometry 998(2003)41

Hollow-fibre liquid-phase microextraction of phthalate esters from water 999(2003)145

Phthalic acids

Preparative separation of isomeric sulfolphthalic acids by conventional and pH-zone-refining counter-current chromatography 966(2002)111

Phycobiliproteins

Separation and quantitation of phycobiliproteins using phytic acid in capillary electrophoresis with laser-induced fluorescence detection 972(2002)269

Phycocyanin

Separation and quantitation of phycobiliproteins using phytic acid in capillary electrophoresis with laser-induced fluorescence detection 972(2002)269

Phycocerythrin

Separation and quantitation of phycobiliproteins using phytic acid in capillary electrophoresis with laser-induced fluorescence detection 972(2002)269

Phytic acid

Separation and quantitation of phycobiliproteins using phytic acid in capillary electrophoresis with laser-induced fluorescence detection 972(2002)269

Phytoalexins

Erratum to “Reproducibility of the high-performance liquid chromatographic fingerprints obtained from two soybean cultivars and a selected progeny”. [J. Chromatogr. A, 915 (2001) 61–74] 989(2003)317

Phytols

Rapid isolation of biomarkers for compound specific radiocarbon dating using high-performance liquid chromatography and flow injection analysis–atmospheric pressure chemical ionisation mass spectrometry 978(2002)129

Picoline

Mixed-mode electrokinetic chromatography of aromatic bases with two pseudo-stationary phases and pH control 997(2003)207

Pigments

Simple method for reversed-phase high-performance liquid chromatographic analysis of fungal pigments in fruit-bodies of Boletales (Fungi) 964(2002)129

Characterisation of the surface Lewis acid–base properties of the components of pigmented, impact-modified, bisphenol A polycarbonate–poly(butylene terephthalate) blends by inverse gas chromatography–phase separation and phase preferences 969(2002)119

Pinenes

Analysis by gas chromatography–mass spectrometry of the essential oils from the aerial parts of *Rutheopsis herbanica* (Bolle) Hans. & Kunk., gathered in Fuerteventura (Canary Islands) 984(2003)159

Piperidine

Development and validation of a capillary electrophoresis–indirect photometric detection method for the determination of the non-UV-absorbing 1,4-dideoxy-1,4-imino-D-arabinitol in active pharmaceutical ingredients, solutions and tablets using an internal standard 996(2003)213

Piperonyl butoxide

Isocratic reversed-phase liquid chromatographic method for the simultaneous determination of (*S*)-methoprene, MGK264, piperonyl butoxide, sumithrin and permethrin in pesticide formulation 983(2003)145

Piperoxan

Continuous fractionation of enantiomer pairs in free solution using an electrophoretic analog of simulated moving bed chromatography 953(2002)263

Plant hormones

Comprehensive chemical derivatization for gas chromatography–mass spectrometry-based multi-targeted profiling of the major phytohormones 993(2003)89

Plasminogen activator

In vitro comparison of complementary interactions between synthetic linear/branched oligo/poly-L-lysines and tissue plasminogen activator by means of high-performance monolithic-disk affinity chromatography 992(2003)109

Plasticizers

Determination of adipate plasticizers in poly(vinyl chloride) by microwave-assisted extraction 963(2002)401

Platinum

Ion chromatography with inductively coupled plasma mass spectrometry, a powerful analytical tool for complex matrices. Estimation of Pt and Pd in environmental samples 997(2003)51

PNU-248686A

Determination of PNU-248686A, a novel matrix metalloproteinase inhibitor, in human plasma by liquid chromatography–tandem mass spectrometry, following protein precipitation in the 96-well plate format 987(2003)249

Podophyllotoxins

Separation of diastereoisomers of podophyllum lignans by micellar electrokinetic chromatography 959(2002)263

Polar compounds

Separation of polar compounds using carbon columns (Review) 989(2003)183

Liquid chromatography–mass spectrometry and strategies for trace-level analysis of polar organic pollutants 1000(2003)477

Poly(*N*-acetylneuraminic acid)

Colomonic acid: a novel chiral selector for capillary electrophoresis of basic drugs 962(2002)221

Polyacrylamide

Stable homogeneous gel for molecular-sieving of DNA fragments in capillary electrophoresis 960(2002)221

Polyallylamine

Ion-exchange separation of proteins by polyallylamine-grafted cellulose gel 955(2002)191

Polyamic acid ionic salt

Molecular mass determination of polyamic acid ionic salt by size-exclusion chromatography 977(2002)207

Polyamides

Size-exclusion chromatography in 1,1,1,3,3,3-hexafluoro-2-propanol 964(2002)169

Polyamines

Ion-pair high-performance liquid chromatographic determination of biogenic amines and polyamines in wine and other alcoholic beverages 998(2003)235

Polyaniline

Surface and thermodynamic characterization of conducting polymers by inverse gas chromatography. I. Polyaniline 969(2002)229

Polybrominated biphenyls

Chromatographic enrichment and enantiomer separation of axially chiral polybrominated biphenyls in a technical mixture 973(2002)123

Polybrominated diphenyl ethers

Recent advances in the mass spectrometric analysis related to endocrine disrupting compounds in aquatic environmental samples (Review) 974(2002)23

Large-volume programmed-temperature vaporiser injection for fast gas chromatography with electron capture and mass spectrometric detection of polybrominated diphenyl ethers 991(2003)241

New strategy for comprehensive analysis of polybrominated diphenyl ethers, polychlorinated dibenzo-*p*-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls by gas chromatography coupled with mass spectrometry 998(2003)169

Polybutadiene

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17

Analysis and critical comparison of the reversed-phase and ion-exchange contributions to retention on polybutadiene coated zirconia and octadecyl silane bonded silica phases 996(2003)13

Poly(butylene terephthalate)

Characterisation of the surface Lewis acid–base properties of poly(butylene terephthalate) by inverse gas chromatography 969(2002)111

Characterisation of the surface Lewis acid–base properties of the components of pigmented, impact-modified, bisphenol A polycarbonate–poly(butylene terephthalate) blends by inverse gas chromatography–phase separation and phase preferences 969(2002)119

Characterization of poly(butylene terephthalate) by size-exclusion chromatography and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry 976(2002)145

Poly(ϵ -caprolactone)

Scale-up study of high osmotic pressure chromatography for separation of poly(ϵ -caprolactone) 996(2003)71

Polychlorinated biphenyls

Computer-assisted automatic peak recognition and result evaluation for analysis of chlorinated hydrocarbons in environmental samples 957(2002)37

Some aspects of the analysis of environmental pollutants in sediments using pressurized liquid extraction and gas chromatography–mass spectrometry 957(2002)59

High-resolution separation of polychlorinated biphenyls by comprehensive two-dimensional gas chromatography 958(2002)203

Nordic laboratory intercomparison of supercritical fluid extraction for the determination of total petroleum hydrocarbon, polychlorinated biphenyls and polycyclic aromatic hydrocarbons in soil 958(2002)239

Miniaturised analytical procedure of determining polycyclic aromatic hydrocarbons and polychlorinated biphenyls in bottom sediments 959(2002)173

Development of a high-performance liquid chromatography carbon column based method for the fractionation of dioxin-like polychlorinated biphenyls 962(2002)79

Effects of temperature and flow regulated carbon dioxide cooling in longitudinally modulated cryogenic systems for comprehensive two-dimensional gas chromatography 962(2002)127

Photolysis of polychlorinated biphenyls by solid-phase microextraction. “On-fibre” versus aqueous photodegradation 963(2002)37

Determination of polychlorinated biphenyl compounds in indoor air samples 963(2002)65

Evaluation of a high-resolution time-of-flight mass spectrometer for the gas chromatographic determination of selected environmental contaminants 970(2002)213

Monitoring polychlorinated biphenyls in pine needles using supercritical fluid extraction as a pretreatment method 976(2002)393

Micropore-free surface-activated carbon for the analysis of polychlorinated dibenzo-*p*-dioxins–dibenzofurans and non-*ortho*-substituted polychlorinated biphenyls in environmental samples 977(2002)155

MultiSimplex optimisation of the solid-phase microextraction–gas chromatographic–mass spectrometric determination of polycyclic aromatic hydrocarbons, polychlorinated biphenyls and phthalates from water samples 978(2002)165

Optimization of a microwave-assisted extraction method for the analysis of polychlorinated biphenyls in ash samples 985(2003)137

Extraction of polychlorinated biphenyls from soils by automated focused microwave-assisted Soxhlet extraction 998(2003)21

New strategy for comprehensive analysis of polybrominated diphenyl ethers, polychlorinated dibenzo-*p*-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls by gas chromatography coupled with mass spectrometry 998(2003)169

Solid-phase microextraction fibre–water distribution constants of more hydrophobic organic compounds and their correlations with octanol–water partition coefficients 999(2003)35

Developments in the use of chromatographic techniques in marine laboratories for the determination of halogenated contaminants and polycyclic aromatic hydrocarbons 1000(2003)223

Polychlorinated dibenzodioxins

High-resolution separation of polychlorinated biphenyls by comprehensive two-dimensional gas chromatography 958(2002)203

Development of supercritical fluid extraction with a solid-phase trapping for fast estimation of toxic load of polychlorinated dibenzo-*p*-dioxins–dibenzofurans in sawmill soil 975(2002)189

Micropore-free surface-activated carbon for the analysis of polychlorinated dibenzo-*p*-dioxins–dibenzofurans and non-*ortho*-substituted polychlorinated biphenyls in environmental samples 977(2002)155

New strategy for comprehensive analysis of polybrominated diphenyl ethers, polychlorinated dibenzo-*p*-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls by gas chromatography coupled with mass spectrometry 998(2003)169

Polychlorinated dibenzofurans

High-resolution separation of polychlorinated biphenyls by comprehensive two-dimensional gas chromatography 958(2002)203

Development of supercritical fluid extraction with a solid-phase trapping for fast estimation of toxic load of polychlorinated dibenzo-*p*-dioxins-dibenzofurans in sawmill soil 975(2002)189

Micropore-free surface-activated carbon for the analysis of polychlorinated dibenzo-*p*-dioxins–dibenzofurans and non-*ortho*-substituted polychlorinated biphenyls in environmental samples 977(2002)155

New strategy for comprehensive analysis of polybrominated diphenyl ethers, polychlorinated dibenzo-*p*-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls by gas chromatography coupled with mass spectrometry 998(2003)169

Polycyclic aromatic hydrocarbons

see Polynuclear aromatic hydrocarbons

Poly(dibenzo-18-crown-6)

Column chromatographic separation of uranium(VI) and other elements using poly(dibenzo-18-crown-6) and ascorbic acid medium 983(2003)277

Polydiphenylamine

Application of a single electrode, modified with polydiphenylamine and dodecyl sulfate, for the simultaneous amperometric determination of electro-inactive anions and cations in ion chromatography 997(2003)65

Polydisperse polymers

Study on the concentration effects in size exclusion chromatography. VII. A quantitative verification for the model theory of concentration and molecular mass dependences of hydrodynamic volumes for polydisperse polymers 961(2002)155

Predicting the behaviour of polydisperse polymers in liquid chromatography under isocratic and gradient conditions 965(2002)93

Application of the reversed-phase liquid chromatographic model to describe the retention behaviour of polydisperse macromolecules in gradient and isocratic liquid chromatography 988(2003)53

Poly(ether amide)

Structure characterization of hyperbranched poly(ether amide)s. I. Preparative fractionation 976(2002)171

Polyether ether ketone

Electrophoretic separations with polyether ether ketone capillaries and capacitively coupled contactless conductivity detection 978(2002)205

Polyethoxysilane

Experimental Van Deemter plots of shear-driven liquid chromatographic separations in disposable microchannels 987(2003)39

Polyethylene

Acid–base and surface energy characterization of grafted polyethylene using inverse gas chromatography 969(2002)73

Elution behavior of polyethylene in polar mobile phases on a non-polar sorbent 988(2003)69

Polyethylene glycol esters

Liquid chromatography of polyethylene glycol mono- and diesters: functional macromolecules or block copolymers? 984(2003)29

Poly(ethylene glycol)

Liquid exclusion–adsorption chromatography: a new technique for isocratic separation of non-ionic surfactants. V. Two-dimensional separation of fatty acid polyglycol ethers 953(2002)89

Effects of solvent density on retention in gas–liquid chromatography. I. Alkanes solutes in polyethylene glycol stationary phases 953(2002)151

Theory of liquid chromatography of mono- and difunctional macromolecules. I. Studies in the critical interaction mode 955(2002)9

Composition analysis of poly(ethylene glycol)–poly(L-lactide) diblock copolymer studied by two-dimensional column chromatography 966(2002)41

Liquid chromatographic–electrospray ionization mass spectrometric analysis of neutral and charged polyethylene glycols 976(2002)165

Characterization of polyethylene glycols and polypropylene glycols by capillary zone electrophoresis and micellar electrokinetic chromatography 985(2003)479

Poly(ethylene oxide)

Size-exclusion chromatography in 1,1,1,3,3,3-hexafluoro-2-propanol 964(2002)169

Effects of metal ions on concentration of DNA in high-conductivity media by capillary electrophoresis 966(2002)195

On-line concentration of trace proteins by pH junctions in capillary electrophoresis with UV absorption detection 979(2002)261

Protein partitioning in thermoseparating systems of a charged hydrophobically modified ethylene oxide polymer 983(2003)133

Retention mechanism of poly(ethylene oxide) in reversed-phase and normal-phase liquid chromatography 986(2003)191

Effects of solvent density on retention in gas–liquid chromatography. II. Polar solutes in poly(ethylene glycol) stationary phases 989(2003)265

Poly(ethylene terephthalate)

Size-exclusion chromatography in 1,1,1,3,3,3-hexafluoro-2-propanol 964(2002)169

Polyglycerol polyricinoleate

Effect of emulsifiers on surface properties of sucrose by inverse gas chromatography 969(2002)97

Polyhydroxy alkaloids

Polyhydroxy alkaloids: chromatographic analysis (Review) 967(2002)57

Poly- β -hydroxybutyric acid

Determination of poly- β -hydroxybutyric acid in *Bacillus thuringiensis* by capillary zone electrophoresis with indirect ultraviolet absorbance detection 973(2002)197

Poly(*N*-isopropylacrylamide-*co*-acrylic acid-*co*-*N*-*tert*-butylacrylamide)

Aqueous chromatography utilizing hydrophobicity-modified anionic temperature-responsive hydrogel for stationary phases 958(2002)109

Poly(L-lactide)

Composition analysis of poly(ethylene glycol)–poly(L-lactide) diblock copolymer studied by two-dimensional column chromatography 966(2002)41

Poly(L-leucine)

Enantiomeric separations using poly(L-valine) and poly(L-leucine) surfactants. Investigation of steric factors near the chiral center 966(2002)179

Polylysines

In vitro comparison of complementary interactions between synthetic linear/branched oligo/poly-L-lysines and tissue plasminogen activator by means of high-performance monolithic-disk affinity chromatography 992(2003)109

Polymer additives

Feasibility of supercritical fluid extraction with on-line coupling of reversed-phase liquid chromatography for quantitative analysis of polymer additives 995(2003)227

Polymers

Theory of liquid chromatography of mono- and difunctional macromolecules. I. Studies in the critical interaction mode 955(2002)9

Study on the concentration effects in size exclusion chromatography. VII. A quantitative verification for the model theory of concentration and molecular mass dependences of hydrodynamic volumes for polydisperse polymers 961(2002)155

Predicting the behaviour of polydisperse polymers in liquid chromatography under isocratic and gradient conditions 965(2002)93

Copolymer solutions as separation media for DNA capillary electrophoresis (Review) 966(2002)1

Gradient separation of polymers at critical point of adsorption 966(2002)25

Composition analysis of poly(ethylene glycol)–poly(L-lactide) diblock copolymer studied by two-dimensional column chromatography 966(2002)41

Theory for the capillary electrophoretic separation of DNA in polymer solutions 967(2002)279

Characterisation of the surface Lewis acid–base properties of poly(butylene terephthalate) by inverse gas chromatography 969(2002)111

Characterisation of the surface Lewis acid–base properties of the components of pigmented, impact-modified, bisphenol A polycarbonate–poly(butylene terephthalate) blends by inverse gas chromatography–phase separation and phase preferences 969(2002)119

Surface and thermodynamic characterization of conducting polymers by inverse gas chromatography. I. Polyaniline 969(2002)229

Polymer–solvent interaction parameters in polymer solutions at high polymer concentrations 969(2002)245

Study of the miscibility of poly(styrene-*co*-4-vinylbenzoic acid) with poly(ethyl methacrylate) or with poly[ethyl methacrylate-*co*-(2-*N,N*-dimethylaminoethyl) methacrylate] by inverse gas chromatography 969(2002)287

Size-exclusion chromatography of low-molecular-mass polymers using mesoporous silica 973(2002)97

Evaluation of high-performance liquid chromatography column retentivity using macromolecular probes. II. Silanophilic interactivity traced by highly polar polymers 976(2002)27

Molecular mass characterization of polymers with strongly interacting groups using gel permeation chromatography–light scattering detection 976(2002)155

Structure characterization of hyperbranched poly(ether amide)s. I. Preparative fractionation 976(2002)171

Relations between the separation coefficient, longitudinal displacement and peak broadening in size exclusion chromatography of macromolecules 978(2002)109

Characterization of polyethylene glycols and polypropylene glycols by capillary zone electrophoresis and micellar electrokinetic chromatography 985(2003)479

Contribution of the polymer standards' polydispersity to the observed band broadening in size-exclusion chromatography 986(2003)1

Conductive polymers as new media for solid-phase extraction: Isolation of chlorophenols from water sample 986(2003)111

Lowering the molecular mass limit of thermal field-flow fractionation for polymer separations 988(2003)285

Chemical compositional separation of styrene–methyl methacrylate copolymers using high-performance liquid chromatography with liquefied carbon dioxide as eluent 991(2003)197

Pyrolysis–gas chromatography–mass spectrometry of cured phenolic resins 993(2003)131

Fractal calibration in size-exclusion chromatography. I. An introduction 996(2003)33

Comprehensive two-dimensional liquid chromatography of polymers 1000(2003)693

Poly(methyl methacrylate)

Size-exclusion chromatography in 1,1,1,3,3,3-hexafluoro-2-propanol 964(2002)169

New approach to characterise physicochemical properties of solid substrates by inverse gas chromatography at infinite dilution. II. Study of the transition temperatures of poly(methyl methacrylate) at various tacticities and of poly(methyl methacrylate) adsorbed on alumina and silica 969(2002)27

New approach to characterise physicochemical properties of solid substrates by inverse gas chromatography at infinite dilution. III. Determination of the acid–base properties of some solid substrates (polymers, oxides and carbon fibres): a new model 969(2002)37

Influence of poly(methyl methacrylate) impregnation ratio on the surface properties of fumed silica and on the glassy temperature of poly(methyl methacrylate) using inverse gas chromatographic analysis 969(2002)143

Adsorption of poly(methyl methacrylate) and poly(vinyl chloride) blends onto polypyrrole. Study by X-ray photoelectron spectroscopy, time-of-flight static secondary ion mass spectroscopy, and inverse gas chromatography 969(2002)273

Evaluation of high-performance liquid chromatography column retentivity using macromolecular probes. II. Silanophilic interactivity traced by highly polar polymers 976(2002)27

Breakthrough of polymers in interactive liquid chromatography 982(2002)55

Zone electrophoresis of proteins on a poly(methyl methacrylate) chip with conductivity detection 990(2003)179

Poly(methyloctylsiloxane)

Chromatographic evaluation of self-immobilized stationary phases for reversed-phase liquid chromatography 987(2003)87

High-performance liquid chromatographic stationary phases based on poly(methyloctylsiloxane) immobilized on silica. III. Stability evaluations 987(2003)93

Polymyxins

Liquid chromatography–ion trap tandem mass spectrometry for the characterization of polypeptide antibiotics of the colistin series in commercial samples 976(2002)65

Polynuclear aromatic hydrocarbons

see also Hydrocarbons, aromatic

Electron-capture detector and multiple negative ions of aromatic hydrocarbons 952(2002)173

New procedure for selective extraction of polycyclic aromatic hydrocarbons in plants for gas chromatographic–mass spectrometric analysis 958(2002)1

Deferred standards, an on-line qualification, validation and system stability probe for chromatographic assay 958(2002)79

Determination of polycyclic aromatic hydrocarbons and polycyclic aromatic sulfur heterocycles by high-performance liquid chromatography with fluorescence and atmospheric pressure chemical ionization mass spectrometry detection in seawater and sediment samples 958(2002)141

Nordic laboratory intercomparison of supercritical fluid extraction for the determination of total petroleum hydrocarbon, polychlorinated biphenyls and polycyclic aromatic hydrocarbons in soil 958(2002)239

Miniaturised analytical procedure of determining polycyclic aromatic hydrocarbons and polychlorinated biphenyls in bottom sediments 959(2002)173

Novel alkyl-modified anionic siloxanes as pseudostationary phases for electrokinetic chromatography. III. Performance in organic-modified buffers 959(2002)255

Effect of preparatory conditions on the performance of photopolymerized sol–gel monoliths for capillary electrochromatography 961(2002)45

- Determination of 1-hydroxypyrene in human urine by high-performance liquid chromatography with fluorescence detection using a deuterated internal standard 961(2002)107
- Acid-induced cloud point extraction and preconcentration of polycyclic aromatic hydrocarbons from environmental solid samples 962(2002)1
- Application of stir bar sorptive extraction to the determination of polycyclic aromatic hydrocarbons in aqueous samples 963(2002)225
- Application of on-line solid-phase extraction–gas chromatography–mass spectrometry to the determination of endocrine disruptors in water samples 963(2002)287
- Dynamic microwave-assisted extraction coupled on-line with solid-phase extraction: determination of polycyclic aromatic hydrocarbons in sediment and soil 964(2002)11
- High-performance liquid chromatographic separation of polycyclic aromatic hydrocarbons using pyridinium chloride as a selective fluorescence quencher to aid detection 966(2002)53
- Identification and quantification of polar naphthalene derivatives in contaminated groundwater of a former gas plant site by liquid chromatography–electrospray ionization tandem mass spectrometry 967(2002)201
- Characterisation of the chromatographic properties of a silica–polypyrrole composite stationary phase by inverse liquid chromatography 969(2002)167
- Evaluation of a high-resolution time-of-flight mass spectrometer for the gas chromatographic determination of selected environmental contaminants 970(2002)213
- Chromatographic shape selectivity with carbon dioxide–acetonitrile mobile phases. Effect of mobile phase composition and density 971(2002)61
- Characterization and source identification of hydrocarbons in water samples using multiple analytical techniques 971(2002)173
- Study of fungal degradation products of polycyclic aromatic hydrocarbons using gas chromatography with ion trap mass spectrometry detection 974(2002)213
- Comparison of various extraction techniques for the determination of polycyclic aromatic hydrocarbons in worms 975(2002)165
- Thermodynamic and kinetic models for the extraction of essential oil from savory and polycyclic aromatic hydrocarbons from soil with hot (subcritical) water and supercritical CO₂ 975(2002)175
- Application of static and dynamic liquid-phase microextraction in the determination of polycyclic aromatic hydrocarbons 976(2002)377
- Static extraction with modified pressurized liquid and on-line fluorescence monitoring. Independent matrix approach for the removal of polycyclic aromatic hydrocarbons from environmental solid samples 978(2002)49
- MultiSimplex optimisation of the solid-phase microextraction–gas chromatographic–mass spectrometric determination of polycyclic aromatic hydrocarbons, polychlorinated biphenyls and phthalates from water samples 978(2002)165
- Determination of nitrated polycyclic aromatic hydrocarbons and their precursors in biotic matrices 982(2002)127
- Screening method for polycyclic aromatic hydrocarbons in soil using hollow fiber membrane solvent microextraction 982(2002)201
- Lichens as polycyclic aromatic hydrocarbon bioaccumulators used in atmospheric pollution studies 985(2003)185
- Determination of total and polycyclic aromatic hydrocarbons in aviation jet fuel 985(2003)197
- Solid-phase clean-up in the liquid chromatographic determination of polycyclic aromatic hydrocarbons in edible oils 988(2003)33
- Optimization, validation and comparison of various extraction techniques for the trace determination of polycyclic aromatic hydrocarbons in sewage sludges by liquid chromatography coupled to diode-array and fluorescence detection 995(2003)87
- Optimization of a preparative capillary gas chromatography–mass spectrometry system for the isolation and harvesting of individual polycyclic aromatic hydrocarbons 996(2003)163
- Solid-phase microextraction fibre–water distribution constants of more hydrophobic organic compounds and their correlations with octanol–water partition coefficients 999(2003)35
- Analysis of 35 priority semivolatile compounds in water by stir bar sorptive extraction–thermal desorption–gas chromatography–mass spectrometry. I. Method optimisation 999(2003)91
- Rapid determination of polycyclic aromatic hydrocarbons in sewage sludges using microwave-assisted solvent extraction. Comparison with other extraction methods 999(2003)175
- Developments in the use of chromatographic techniques in marine laboratories for the determination of halogenated contaminants and polycyclic aromatic hydrocarbons 1000(2003)223

Polynuclear aromatic hydrocarbons, nitrated

Automated fast extraction of nitrated polycyclic aromatic hydrocarbons from soil by focused microwave-assisted Soxhlet extraction prior to gas chromatography–electron-capture detection 994(2003)159

Polynuclear aromatic sulfur heterocycles

Determination of polycyclic aromatic hydrocarbons and polycyclic aromatic sulfur heterocycles by high-performance liquid chromatography with fluorescence and atmospheric pressure chemical ionization mass spectrometry detection in seawater and sediment samples 958(2002)141

Polypeptides

Liquid chromatography–ion trap tandem mass spectrometry for the characterization of polypeptide antibiotics of the colistin series in commercial samples 976(2002)65

Polyphenolic acids

Prediction of chromatographic retention, pK_a values and optimization of the separation of polyphenolic acids in strawberries 975(2002)299

Polyphenols

Online coupling of pressurized liquid extraction, solid-phase extraction and high-performance liquid chromatography for automated analysis of proanthocyanidins in malt 958(2002)9

Preparative isolation of polyphenolic compounds from *Vitis vinifera* by centrifugal partition chromatography 964(2002)123

High-performance liquid chromatographic determination of oligomeric procyanidins from dimers up to the hexamer in hawthorn 968(2002)53

Analysis of commercial vegetable tanning agents by reversed-phase liquid chromatography–electrospray ionization–tandem mass spectrometry and its application to wastewater 970(2002)191

Cation-exchange micropreparative separation of galloylated and non-galloylated sulphur conjugated catechins 973(2002)229

Automated sample preparation by pressurized liquid extraction–solid-phase extraction for the liquid chromatographic–mass spectrometric investigation of polyphenols in the brewing process 976(2002)345

Separation of polyphenolic compounds extracted from plant matrices using capillary electrophoresis 990(2003)225

Polyprenols

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Analysis of long-chain polyprenols using supercritical fluid chromatography and matrix-assisted laser desorption ionization time-of-flight mass spectrometry 995(2003)203

Polypropylene

Highly sensitive determination of a polymeric hindered amine light stabilizer in polypropylene by reactive thermal desorption–gas chromatography using nitrogen-specific detection 993(2003)137

Poly(propylene glycol)

Characterization of polyethylene glycols and polypropylene glycols by capillary zone electrophoresis and micellar electrokinetic chromatography 985(2003)479

Polypyrrole

Adsorption of poly(methyl methacrylate) and poly(vinyl chloride) blends onto polypyrrole. Study by X-ray photoelectron spectroscopy, time-of-flight static secondary ion mass spectroscopy, and inverse gas chromatography 969(2002)273

Polysaccharides

see also Saccharides

Conductivity detection for molecular mass estimation of per-*O*-sulfonated glycosaminoglycans separated by high-performance size-exclusion chromatography 959(2002)95

Chromatography and electrophoresis in separation and characterization of polysaccharides from lichens (Review) 967(2002)163

Flow field-flow fractionation and characterization of ionic and neutral polysaccharides of vegetable and microbial origin 967(2002)219

Analysis of oligoguluronic acids with NMR, electrospray ionization–mass spectrometry and high-performance anion-exchange chromatography 968(2002)71

Ion chromatography characterization of polysaccharides in ancient wall paintings 968(2002)79

Liquid chromatographic separation of phosphoramidate diastereomers on a polysaccharide-type chiral stationary phase 983(2003)115

Determination of the distribution of molecular masses of sodium hyaluronate by high-performance anion-exchange chromatography 986(2003)67

Polysiloxanes

Metal complex-substituted polysiloxanes as novel coatings for capillary electrophoresis and capillary electrochromatography 954(2002)247

Performance of metal complex substituted polysiloxanes in capillary electrophoresis and capillary electrochromatography 967(2002)289

Polysorbate 80

High-performance liquid chromatographic determination of polysorbate 80 in pharmaceutical suspensions 984(2003)233

Polystyrene

Temperature gradient interaction chromatography and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis of air terminated polystyryllithium 958(2002)183

Hypercross-linked polystyrene and its potentials for liquid chromatography: a mini-review (Review) 965(2002)65

Retention behaviour of polystyrene oligomers in reversed-phase liquid chromatography 967(2002)173

Development of a two-dimensional liquid chromatography system with trapping and sample enrichment capabilities 968(2002)41

Size-exclusion chromatography of low-molecular-mass polymers using mesoporous silica 973(2002)97

Determination of the porosities of monolithic columns by inverse size-exclusion chromatography 975(2002)275

Evaluation of high-performance liquid chromatography column retentivity using macromolecular probes. II. Silanophilic interactivity traced by highly polar polymers 976(2002)27

Breakthrough of polymers in interactive liquid chromatography 982(2002)55

Polystyrene, butyl-terminated

Molecular modelling of chain end effects in separating oligomers by reversed-phase gradient polymer elution chromatography; adsorption transition as revealed by a self-consistent-field theory for polymer adsorption 959(2002)37

Polystyrene–acrylonitrile

Determining and correcting “moment bias” in gradient polymer elution chromatography 996(2003)45

Polystyrene–divinylbenzene

Analysis of mono- and diesters of *o*-phthalic acid by solid-phase extractions with polystyrene–divinylbenzene-based polymers 963(2002)393

Surface area determination of a polystyrene–divinylbenzene chromatographic packing material via ionic amphiphile adsorption from aqueous mobile phases and application of Gouy–Chapman theory 982(2002)49

Poly(styrene–methyl methacrylate)

Chemical compositional separation of styrene–methyl methacrylate copolymers using high-performance liquid chromatography with liquefied carbon dioxide as eluent 991(2003)197

Polystyrene sulfonate

Field and flow programming in frit-inlet asymmetrical flow field-flow fractionation 955(2002)263

Polystyryllithium

Temperature gradient interaction chromatography and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis of air terminated polystyryllithium 958(2002)183

Poly[1-(trimethylsilyl)-1-propine]

Poly[1-(trimethylsilyl)-1-propine] as chromatographic adsorbent and prospects of its application in packed and capillary columns 960(2002)151

Poly(L-valine)

Enantiomeric separations using poly(L-valine) and poly(L-leucine) surfactants. Investigation of steric factors near the chiral center 966(2002)179

Poly(vinyl butyral)

Determining the vinyl alcohol distribution in poly(vinyl butyral) using normal-phase gradient polymer elution chromatography 971(2002)151

Poly(vinyl chloride)

Determination of adipate plasticizers in poly(vinyl chloride) by microwave-assisted extraction 963(2002)401

Adsorption of poly(methyl methacrylate) and poly(vinyl chloride) blends onto polypyrrole. Study by X-ray photoelectron spectroscopy, time-of-flight static secondary ion mass spectroscopy, and inverse gas chromatography 969(2002)273

Gas chromatography–mass spectrometry determination of the migration of phthalate plasticisers from polyvinyl chloride toys and childcare articles 983(2003)237

Poly(2-vinyl pyridine)

Size-exclusion chromatography in 1,1,1,3,3,3-hexafluoro-2-propanol 964(2002)169

Porphyrins

Open tubular capillary electrochromatography of underivatized amino acids using Rh(III) tetrakis(phenoxyphenyl)porphyrinate as wall modifier 990(2003)159

Posaconazole

Use of high-performance liquid chromatographic and microbiological analyses for evaluating the presence or absence of active metabolites of the antifungal posaconazole in human plasma 987(2003)243

Potassium bromide

The determination of bromide in a local anaesthetic hydrochloride by capillary electrophoresis using direct UV detection 977(2002)265

Practolol

Liquid-phase microextraction of hydrophilic drugs by carrier-mediated transport 998(2003)61

Proanthocyanidins

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Proanthocyanidins

Online coupling of pressurized liquid extraction, solid-phase extraction and high-performance liquid chromatography for automated analysis of proanthocyanidins in malt 958(2002)9

Analysis of proanthocyanidins by high-performance gel permeation chromatography 995(2003)99

Procaine

Use of a novel cation-exchange restricted-access material for automated sample clean-up prior to the determination of basic drugs in plasma by liquid chromatography 975(2002)145

Procyanidins

High-performance liquid chromatographic determination of oligomeric procyanidins from dimers up to the hexamer in hawthorn 968(2002)53

Analysis of proanthocyanidins by high-performance gel permeation chromatography 995(2003)99

Prodelphinidins

Analysis of proanthocyanidins by high-performance gel permeation chromatography 995(2003)99

Profens

see also Nonsteroidal anti-inflammatory drugs

Simultaneous separation of different enantiomeric pairs in capillary electrophoresis by mixing different hemispherodextrins, a very versatile class of receptors 979(2002)137

Rapid screening of pK_a values of pharmaceuticals by pressure-assisted capillary electrophoresis combined with short-end injection 979(2002)369

Simultaneous determination of neutral and acidic pharmaceuticals in wastewater by high-performance liquid chromatography–post-column photochemically induced fluorimetry 993(2003)29

Progesterones

Use of liquid chromatography–diode-array detection and mass spectrometry for rapid product identification in biotechnological synthesis of a hydroxyprogesterone 992(2003)85

Progestogens

Chromatographic behaviour of selected steroids and their inclusion complexes with β -cyclodextrin on octadecylsilica stationary phases with different carbon loads 955(2002)71

Prolactin

Reversed-phase high-performance liquid chromatography method for the determination of prolactin in bacterial extracts and in its purified form 955(2002)229

Prolintane metabolites

Application of comprehensive two-dimensional gas chromatography to drugs analysis in doping control 1000(2003)109

Promethazine

Recovery, enrichment and selectivity in liquid-phase microextraction. Comparison with conventional liquid–liquid extraction 963(2002)3

Pronethalol

Development of a chiral non-aqueous capillary electrophoretic system using the partial filling technique with UV and mass spectrometric detection 986(2003)143

Propamocarb

Determination of propamocarb in vegetables using polymer-based high-performance liquid chromatography coupled with electrospray mass spectrometry 972(2002)231

Propanoguanine

Analysis of DNA adducts of acetaldehyde by liquid chromatography–mass spectrometry 987(2003)341

Propanol

Studies on separation of rare earth elements on various types of anion-exchangers in the C_3H_7OH –7 M HNO_3 systems 955(2002)257

Capillary electrophoresis in aqueous–organic media. Ionic strength effects and limitations of the Hubbard–Onsager dielectric friction model 964(2002)213

Physicochemical measurements by the reversed-flow version of inverse gas chromatography (Review) 969(2002)3

Propranolol

Application of capillaries with minimized electroosmotic flow to the electrokinetic study of acidic drug– β -oleoyl- γ -palmitoyl-L- α -phosphatidyl choline liposome interactions 990(2003)205

Propranolol

Selective extraction of salbutamol from human plasma with the use of phenylboronic acid 987(2003)257

Affinity electrochromatography of acidic drugs using a liposome-modified capillary 990(2003)281

Propylene carbonate

Determination of electroosmotic flow mobility with a pressure-mediated dual-ion technique for capillary electrophoresis with conductivity detection using organic solvents 960(2002)199

Protein A

Use of ultrasound to monitor the packing of large scale columns, the monitoring of medium compression and the passage of molecules, such as monoclonal antibodies, through the column bed during chromatography 989(2003)79

Evaluation of protein-A chromatography media 989(2003)139

Identification of protein A media performance attributes that can be monitored as surrogates for retrovirus clearance during extended re-use 989(2003)155

Analysis of food proteins and peptides by chromatography and mass spectrometry 1000(2003)609

Proteins

see also Antibodies, Enzyme inhibitors, Enzymes, Immunoglobulins, Monoclonal antibodies and Special Issue Index

Protein separation using membrane chromatography: opportunities and challenges (Review) 952(2002)13

Evaluation of *n*-valeraldehyde modified chitosan as a matrix for hydrophobic interaction chromatography 952(2002)79

Effect of salt gradients on the separation of dilute mixtures of proteins by ion-exchange in simulated moving beds 952(2002)85

Initial purification of recombinant botulinum neurotoxin fragments for pharmaceutical production using hydrophobic charge induction chromatography 952(2002)99

Chemiluminescence detection coupled to high-performance frontal analysis for the determination of unbound concentrations of drugs in protein binding equilibrium 952(2002)131

Electroosmotic flow controllable coating on a capillary surface by a sol-gel process for capillary electrophoresis 952(2002)255

Cycloaliphatic epoxy resin coating for capillary electrophoresis 952(2002)267

Erratum to "Characterization of enthalpic events in overloaded ion-exchange chromatography". [J. Chromatogr. A, 944 (2002) 61–68] 952(2002)301

Adsorption kinetics of β -lactoglobulin on a polyclonal immunochromatographic support 953(2002)17

Solvent effect on protein binding by polymer brush grafted onto porous membranes 953(2002)101

Comparison of histidine-tag capture chemistries for purification following chemical extraction 953(2002)111

Purification of the specific immunoglobulin G₁ by immobilized metal ion affinity chromatography using nickel complexes of chelating porous and nonporous polymeric sorbents based on poly(methacrylic esters). Effect of polymer structure 954(2002)115

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Ion-exchange separation of proteins by polyallylamine-grafted cellulose gel 955(2002)191

Reversed-phase high-performance liquid chromatography method for the determination of prolactin in bacterial extracts and in its purified form 955(2002)229

Use of a linear gradient flow program for liquid chromatography–mass spectrometry protein-binding studies 955(2002)237

Steric mass-action model for dye–ligand affinity adsorption of protein 957(2002)89

Effect of the mobile phase composition on the separation and detection of intact proteins by reversed-phase liquid chromatography–electrospray mass spectrometry 957(2002)187

New chromatographic method for separation and determination of denatured α_{s1} -, α_{s2} -, β - and κ -caseins by hydrophobic interaction chromatography 958(2002)157

Collection of α_1 -acid glycoprotein molecular species by capillary electrophoresis and the analysis of their molecular masses and carbohydrate chains. Basic studies on the analysis of glycoprotein glycoforms 958(2002)273

Ultrasensitive chemiluminescence detection in capillary electrophoresis (Review) 959(2002)1

Surface and pore diffusion in macroporous and gel-filled gigaporous stationary phases for protein chromatography 959(2002)65

Dual gradient ion-exchange chromatography improved refolding yield of lysozyme 959(2002)113

Band broadening caused by the multiple labeling of proteins in micellar electrokinetic chromatography with diode laser-induced fluorescence detection 959(2002)281

Capillary electrophoretic separations of proteins using carrier ampholytes 959(2002)289

Hydrophobic interaction chromatographic separation of proteins in human blood fractions hyphenated to atomic spectrometry as detector of essential elements 960(2002)143

- Characterization of the refolding and reassembly of an integral membrane protein OmpF porin by low-angle laser light scattering photometry coupled with high-performance gel chromatography 961(2002)137
- One-step capillary isoelectric focusing of the proteins in cerebrospinal fluid and serum of patients with neurological disorders 961(2002)147
- Study on protein adsorption kinetics to a dye–ligand adsorbent by the pore diffusion model 964(2002)35
- Capillary electrochromatography of proteins with polymer-based strong-cation-exchanger microspheres 965(2002)83
- Fiber optic multi-channel protein detector for use in preparative continuous annular chromatography 967(2002)183
- Separation and quantification of the major casein fractions by reverse-phase high-performance liquid chromatography and urea–polyacrylamide gel electrophoresis. Detection of milk adulterations 967(2002)209
- Simultaneous microanalysis of *N*-linked oligosaccharides in a glycoprotein using microbore graphitized carbon column liquid chromatography–mass spectrometry 968(2002)89
- On-line purification of His-tag enhanced green fluorescent protein taken directly from a bioreactor by continuous ultrasonic homogenization coupled with immobilized metal affinity expanded bed adsorption 968(2002)113
- Structural requirements for conserved Arg⁵² residue for interaction of the human immunodeficiency virus type 1 trans-activation responsive element with trans-activator of transcription protein (49–57). Capillary electrophoresis mobility shift assay 968(2002)211
- Improved capillary isoelectric focusing method for recombinant erythropoietin analysis 968(2002)221
- Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3
- Cyanogen bromide activation and coupling of ligands to diol-containing silica for high-performance affinity chromatography. Optimization of conditions 971(2002)95
- Protein adsorption on novel acrylamido-based polymeric ion-exchangers. IV. Effects of protein size on adsorption capacity and rate 971(2002)105
- Separation of proteins by hydrophobic interaction chromatography at low salt concentration 971(2002)143
- Hydrophobic interaction chromatography of proteins. I. Comparison of selectivity 972(2002)3
- Evaluation and applications of a new dye affinity adsorbent 972(2002)21
- Preparative reversed-phase liquid chromatography of proteins from rabbit skeletal troponin, a multi-protein complex 972(2002)101
- Continuous purification of a clotting factor IX concentrate and continuous regeneration by preparative annular chromatography 972(2002)115
- Separation and quantitation of phycobiliproteins using phytic acid in capillary electrophoresis with laser-induced fluorescence detection 972(2002)269
- Determination of protein phosphorylation by extracellular signal-regulated kinase using capillary electrophoresis and matrix-assisted laser desorption ionization time-of-flight mass spectrometry 976(2002)79
- Direct monitoring of the expression of the green fluorescent protein–extracellular signal-regulated kinase 2 fusion protein in transfected cells using capillary electrophoresis with laser-induced fluorescence detection 976(2002)87
- Purification of proteins specifically binding human endogenous retrovirus K long terminal repeat by affinity elution chromatography 976(2002)95
- Investigating the effects of protein patterns on microorganism identification by high-performance liquid chromatography–mass spectrometry and protein database searches 976(2002)103
- Automated nanoflow liquid chromatography–tandem mass spectrometry for a differential display proteomic study on *Xenopus laevis* neuroendocrine cells 976(2002)113
- Chromatography of microbial cells using continuous supermacroporous affinity and ion-exchange columns 977(2002)27
- Mathematical correlations for predicting protein retention times in hydrophobic interaction chromatography 978(2002)71
- Structural analysis of a glycoprotein by liquid chromatography–mass spectrometry and liquid chromatography with tandem mass spectrometry. Application to recombinant human thrombomodulin 978(2002)141
- Immobilized metal-ion affinity chromatography of recombinant Fab protein OPG C11 in the presence of EDTA–Mg(II) 978(2002)153
- Evaluation and optimization of capillary zone electrophoresis with different dynamic capillary coatings for the determination of carbohydrate-deficient transferrin in human serum 979(2002)43
- Preparative-scale isoelectric trapping separations using a modified Gradiflow unit 979(2002)155

- Direct monitoring of glycohemoglobin A_{1c} in the blood samples of diabetic patients by capillary electrophoresis. Comparison with an immunoassay method 979(2002)201
- Determination of recombinant hirudin structural deviants by capillary zone electrophoresis augmented with buffer additives 979(2002)217
- Microcolumns with self-assembled particle frits for proteomics 979(2002)233
- Miniaturized membrane-based reversed-phase chromatography and enzyme reactor for protein digestion, peptide separation, and protein identification using electrospray ionization mass spectrometry 979(2002)241
- Evidence for oligomerization of metallothioneins in their functional state 979(2002)249
- On-line concentration of trace proteins by pH junctions in capillary electrophoresis with UV absorption detection 979(2002)261
- Extension of separation range in capillary isoelectric focusing for resolving highly basic biomolecules 979(2002)271
- Capillary electrophoresis study of outer membrane proteins of *Pseudomonas* strains upon antibiotic treatment 979(2002)277
- Mapping of protein:protein contact surfaces by hydrogen/deuterium exchange, followed by on-line high-performance liquid chromatography–electrospray ionization fourier-transform ion-cyclotron-resonance mass analysis 982(2002)85
- Investigations of cyclophilin interactions with oligopeptides containing proline by affinity capillary electrophoresis 982(2002)275
- Protein partitioning in thermoseparating systems of a charged hydrophobically modified ethylene oxide polymer 983(2003)133
- In flow activation of diol–silica with cyanogen bromide and triethylamine for preparing high-performance affinity chromatographic columns 984(2003)9
- Protein proteolysis and the multi-dimensional electrochromatographic separation of histidine-containing peptide fragments on a chip 984(2003)97
- Voltage-controlled separation of proteins by electromobility focusing in a dialysis hollow fiber 985(2003)455
- Determination of free L- and D-alanine in hydrolysed protein fertilisers by capillary electrophoresis 985(2003)463
- Hydrophobicity gradient columns for the separation of trypsin inhibitor by hydrophobic interaction chromatography at low salt concentration 986(2003)83
- Separation of proteins on polymeric stationary phases grafted with various amine groups 987(2003)323
- Binding of environmental pollutants to the corn protein zein studied by high-performance liquid chromatography 987(2003)403
- Current and prospective applications of metal ion–protein binding (Review) 988(2003)1
- Design of a new, twelve-channel electrophoretic apparatus based on the Gradiflow technology 989(2003)65
- Tobacco protein separation by aqueous two-phase extraction 989(2003)119
- Interaction of immunoglobulin G with N,N,N',N'-ethylenediaminetetramethylenephosphonic acid-modified zirconia 989(2003)131
- Identification of protein A media performance attributes that can be monitored as surrogates for retrovirus clearance during extended re-use 989(2003)155
- Comparison of standard capillary and chip separations of sodium dodecylsulfate–protein complexes 990(2003)153
- Free-flow electrophoresis in a microfabricated chamber with a micromodule fraction separator. Continuous separation of proteins 990(2003)169
- Zone electrophoresis of proteins on a poly(methyl methacrylate) chip with conductivity detection 990(2003)179
- High-performance cation-exchange chromatofocusing of proteins 991(2003)117
- Modeling of the salt effects on hydrophobic adsorption equilibrium of protein 992(2003)29
- Separation and determination of denatured α_{s1} -, α_{s2} -, β - and κ -caseins by hydrophobic interaction chromatography in cows', ewes' and goats' milk, milk mixtures and cheeses 994(2003)59
- Determination of biotin on a protein by quantitative sodium dodecyl sulfate–capillary gel electrophoresis of monomeric avidin 994(2003)213
- Analysis of protein adsorption on regenerated cellulose-based immobilized copper ion affinity membranes 996(2003)53
- Optimization of immobilized metal ion affinity chromatography for single-step purification of recombinant ovine growth hormone expressed in *Escherichia coli* 998(2003)93
- Recent liquid chromatographic–(tandem) mass spectrometric applications in proteomics 1000(2003)589

Protolytic compounds

Influence of mobile phase acid–base equilibria on the chromatographic behaviour of protolytic compounds (Review) 982(2002)1

Pullulan

Enthalpic interactions in size exclusion chromatography of pullulan and cellulose in LiCl–*N,N*-dimethylacetamide 964(2002)47

Flow field-flow fractionation and characterization of ionic and neutral polysaccharides of vegetable and microbial origin 967(2002)219

Pullulanase

κ -Carrageenan as a new smart macroaffinity ligand for the purification of pullulanase 998(2003)103

Pulvinic acids

Simple method for reversed-phase high-performance liquid chromatographic analysis of fungal pigments in fruit-bodies of Boletales (Fungi) 964(2002)129

Purines

Determination of purine and pyrimidine bases in DNA by micellar electrokinetic capillary chromatography with electrochemical detection 954(2002)267

Pyrazines

Headspace solid-phase microextraction analysis of 3-alkyl-2-methoxy-pyrazines in wines 953(2002)1

Pyrene

Solid phase extraction sorbent consisting of alkyltrimethylammonium surfactants immobilized onto strong cation-exchange polystyrene resin 975(2002)135

Pyrethrins

Determination of pesticides in waters by capillary gas chromatography with atomic emission detection 978(2002)249

Pyrethroids

Comparison of three different poly(dimethylsiloxane)–divinylbenzene fibres for the analysis of pesticide multiresidues in water samples: structure and efficiency 963(2002)19

Determination of pyrethroid residues in tobacco and cigarette smoke by capillary gas chromatography 964(2002)205

Multiresidue method for the simultaneous determination of four groups of pesticides in ground and drinking waters, using solid-phase microextraction–gas chromatography with electron-capture and thermionic specific detection 968(2002)177

Development of a gas chromatography–mass spectrometry method for the determination of household insecticides in indoor air 985(2003)147

Pyridinedicarboxylic acid

On-column complexation of metal ions using 2,6-pyridinedicarboxylic acid and separation of their anionic complexes by capillary electrophoresis with direct UV detection 966(2002)245

Pyridine nucleotides

Determination of pyridine and adenine nucleotide metabolites in *Bacillus subtilis* cell extract by sweeping borate complexation capillary electrophoresis 989(2003)293

Pyridines

Electromigration dispersion in capillary zone electrophoresis. Experimental validation of use of the Haarhoff–Van der Linde function 959(2002)229

Retention of ionizable compounds in high-performance liquid chromatography. 14. Acid–base p*K* values in acetonitrile–water mobile phases 964(2002)55

Prediction of electrophoretic mobilities of alkyl- and alkenylpyridines in capillary electrophoresis using artificial neural networks 971(2002)207

Analysis of pyridines in mainstream cigarette smoke 985(2003)303

Mixed-mode electrokinetic chromatography of aromatic bases with two pseudo-stationary phases and pH control 997(2003)207

Use of solid-phase microextraction coupled with gas chromatography for the determination of residual solvents in pharmaceutical products 999(2003)195

Pyridinium chloride

High-performance liquid chromatographic separation of polycyclic aromatic hydrocarbons using pyridinium chloride as a selective fluorescence quencher to aid detection 966(2002)53

Pyridylazoresorcinol

Determination of vanadium as 4-(2-pyridylazo)resorcinol–hydrogen peroxide ternary complexes by ion-interaction reversed-phase liquid chromatography 956(2002)221

Pyrimethanil

Determination of pyrimethanil and kresoxim-methyl in green groceries by headspace solid-phase microextraction and gas chromatography–mass spectrometry 975(2002)355

Pyrimidines

Determination of purine and pyrimidine bases in DNA by micellar electrokinetic capillary chromatography with electrochemical detection 954(2002)267

Determination of uracil in 5-fluorouracil substance by high-performance liquid chromatography 994(2003)221

Pyromellitic acid

Modification and validation of the pyromellitic acid electrolyte for the capillary electrophoretic determination of anions 995(2003)217

Pyruvate

Ginkgo biloba extract preserves pyruvate and enhances ascorbate in the cortex of gerbils during focal cerebral ischemia. A microdialysis–liquid chromatography study 985(2003)387

Q**Quaternary ammonium compounds**

Determination of alkyl benzyl and dialkyl dimethyl quaternary ammonium biocides in occupational hygiene and environmental media by liquid chromatography with electrospray ionisation mass spectrometry and tandem mass spectrometry 952(2002)165

Analysis of the herbicides paraquat, diquat and difenzoquat in drinking water by micellar electrokinetic chromatography using sweeping and cation selective exhaustive injection 961(2002)65

Capillary electrophoresis–mass spectrometry for the analysis of quaternary ammonium herbicides 974(2002)243

Quercetin

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Selective separation of active inhibitors of epidermal growth factor receptor from *Caragana Jubata* by molecularly imprinted solid-phase extraction 991(2003)151

Determination of aluminum in environmental and biological samples by reversed-phase high-performance liquid chromatography via pre-column complexation with morin 993(2003)179

Quercetin glycosides

On-line coupling of capillary isotachopheresis and capillary zone electrophoresis for the determination of flavonoids in methanolic extracts of *Hypericum perforatum* leaves or flowers 958(2002)261

Quinoline

Mixed-mode electrokinetic chromatography of aromatic bases with two pseudo-stationary phases and pH control 997(2003)207

Quinoline yellow

Purification of quinoline yellow components using high-speed counter-current chromatography by stepwise increasing the flow-rate of the mobile phase 989(2003)249

Quinololinol

Purification of the specific immunoglobulin G₁ by immobilized metal ion affinity chromatography using nickel complexes of chelating porous and nonporous polymeric sorbents based on poly(methacrylic esters). Effect of polymer structure 954(2002)115

Quinolinylazodimethylaminophenol

Determination of transition metal ions in tobacco as their 2-(2-quinolinyloxy)-5-dimethylaminophenol derivatives using reversed-phase liquid chromatography with UV–VIS detection 971(2002)243

Quinolones

Multiresidue determination of (fluoro)quinolone antibiotics in swine kidney using liquid chromatography–tandem mass spectrometry 952(2002)121

Validation of a liquid chromatography–tandem mass spectrometry method for the simultaneous quantification of 11 (fluoro)quinolone antibiotics in swine kidney 976(2002)195

Determination of quinolones and fluoroquinolones in fish tissue and seafood by high-performance liquid chromatography with electrospray ionisation tandem mass spectrometric detection 982(2002)97

Quantitation of the enantiomers of ofloxacin by capillary electrophoresis in the parts per billion concentration range for in vitro drug absorption studies 988(2003)135

Development of a capillary zone electrophoresis–electrospray ionisation tandem mass spectrometry method for the analysis of fluoroquinolone antibiotics 990(2003)259

Quinones

Oligonucleotide covalent modifications by estrogen quinones evidenced by use of liquid chromatography coupled to negative electrospray ionization tandem mass spectrometry 976(2002)123

R**Raney nickel**

Determination of 3-nitrobenzanthrone in surface soil by normal-phase high-performance liquid chromatography with fluorescence detection 992(2003)101

Ranitidine

Systematic error in automated in-tube solid-phase microextraction 995(2003)1

Rare earth ions

see also Lanthanides

Studies on separation of rare earth elements on various types of anion-exchangers in the $C_3H_7OH-7 M HNO_3$ systems 955(2002)257

Application of electrokinetic supercharging capillary zone electrophoresis to rare-earth ore samples 990(2003)335

RDX

Cyclodextrin-assisted capillary electrophoresis for determination of the cyclic nitramine explosives RDX, HMX and CL-20. Comparison with high-performance liquid chromatography 999(2003)17

Recombinant proteins

see also Proteins

Initial purification of recombinant botulinum neurotoxin fragments for pharmaceutical production using hydrophobic charge induction chromatography 952(2002)99

Resin acids

Evaluation of liquid chromatography–negative ion electrospray mass spectrometry for the determination of selected resin acids in river water 952(2002)289

Comparison of gas chromatography–mass spectrometry and liquid chromatography–mass spectrometry for the determination of fatty and resin acids in paper mill process waters 991(2003)205

Resols

Pyrolysis–gas chromatography–mass spectrometry of cured phenolic resins 993(2003)131

Resorcinarene

Mixed chiral stationary phase containing modified resorcinarene and β -cyclodextrin selectors bonded to a polysiloxane for enantioselective gas chromatography 994(2003)127

Rewoteric AM CAS U

Determination of zwitterionic and cationic surfactants by high-performance liquid chromatography with chemiluminescent nitrogen detection 956(2002)237

Rhamnose

Co-eluent effect in partition chromatography. Rhamnose–xylose separation with strong and weak cation-exchangers in aqueous ethanol 982(2002)69

Rhenium

Capillary electrophoretic and thin-layer chromatographic characterization of rhenium complexation with 1-hydroxyethylidenediphosphonic acid 990(2003)317

Rhodanese

Inhibition study of rhodanese by means of electrophoretically mediated microanalysis 990(2003)189

Riboflavin

Optimizing separation conditions for riboflavin, flavin mononucleotide and flavin adenine dinucleotide in capillary zone electrophoresis with laser-induced fluorescence detection 968(2002)229

Riboflavin phosphate

Simultaneous determination of water-soluble vitamins in a vitamin-enriched drink by an in-capillary enzyme reaction method 986(2003)153

Ribonucleotides

Capillary liquid chromatographic–high-resolution mass spectrometric analysis of ribonucleotides 976(2002)135

Rimantadine

Evaluation of calibration data in capillary electrophoresis using artificial neural networks to increase precision of analysis 979(2002)59

Ristocetin

Effects of temperature on retention of chiral compounds on a ristocetin A chiral stationary phase 958(2002)89

Ritonavir

Structural elucidation of metabolites of ritonavir and indinavir by liquid chromatography–mass spectrometry 974(2002)91

Rotaxanes

Polyrotaxane approach for synthesis of continuous beds for capillary electrochromatography 971(2002)225

Rotenone

Determination of acaricides in honey by high-performance liquid chromatography with photodiode array detection 954(2002)173

Determination of rotenone in river water utilizing packed capillary column switching liquid chromatography with UV and time-of-flight mass spectrometric detection 983(2003)43

Ruthenium

Separation and determination of emetine dithiocarbamate metal complexes by capillary electrophoresis with chemiluminescence detection of the tris(2,2'-bipyridine)–ruthenium(II) complex 958(2002)283

Rutin

Evaluation of calibration data in capillary electrophoresis using artificial neural networks to increase precision of analysis 979(2002)59

S

Saccharides

see also Carbohydrates, Monosaccharides, Oligosaccharides, Polysaccharides and Sugars

Simultaneous analysis of monosaccharides and oligosaccharides by high-performance liquid chromatography with postcolumn fluorescence derivatization 961(2002)77

Salbutamol

Selective extraction of salbutamol from human plasma with the use of phenylboronic acid 987(2003)257

Salep

Flow field-flow fractionation and characterization of ionic and neutral polysaccharides of vegetable and microbial origin 967(2002)219

Salicylic acid

Application of capillaries with minimized electroosmotic flow to the electrokinetic study of acidic drug- β -oleoyl- γ -palmitoyl-L- α -phosphatidyl choline liposome interactions 990(2003)205

Affinity electrochromatography of acidic drugs using a liposome-modified capillary 990(2003)281

Salidroside

Separation of salidroside from *Rhodiola crenulata* by high-speed counter-current chromatography 971(2002)237

Saponins

Chromatographic determination of plant saponins (Review) 967(2002)147

Pressurized liquid extraction of active ingredients (ginsenosides) from medicinal plants using non-ionic surfactant solutions 983(2003)153

Sarin

Selective stationary phase for solid-phase microextraction analysis of sarin (GB) 954(2002)217

Development of an analytical methodology for sarin (GB) and soman (GD) in various military-related wastes 962(2002)183

SB245419

Atmospheric pressure photoionization liquid chromatographic-mass spectrometric determination of idoxifene and its metabolites in human plasma 970(2002)155

SCH 56592

Use of high-performance liquid chromatographic and microbiological analyses for evaluating the presence or absence of active metabolites of the antifungal posaconazole in human plasma 987(2003)243

Schizandrin

Use of synthetic adsorbents in preparative normal-phase liquid chromatography 989(2003)19

Scopolamine

Analysis of tropane and related alkaloids (Review) 978(2002)1

Preparation of a molecularly imprinted polymer for the solid-phase extraction of scopolamine with hyoscyamine as a dummy template molecule 987(2003)103

Sea Nine

Analysis of antifouling biocides Irgarol 1051 and Sea Nine 211 in environmental water samples using solid-phase microextraction and gas chromatography 952(2002)215

Aquatic phototransformation study of the antifouling agent Sea-Nine 211: identification of byproducts and the reaction pathway by gas chromatography-mass spectroscopy 959(2002)215

Secoisolaricresinol diglucoside

On-line liquid-chromatography-nuclear magnetic resonance spectroscopy-mass spectrometry coupling for the separation and characterization of secoisolaricresinol diglucoside isomers in flaxseed 972(2002)195

Selenium

Applications of ion chromatography with electrospray mass spectrometric detection to the determination of environmental contaminants in water 956(2002)245

Solid-phase extraction for the simultaneous preconcentration of organic (selenocystine) and inorganic [Se(IV), Se(VI)] selenium in natural waters 963(2002)185

Development of new analytical methods for selenium speciation in selenium-enriched yeast material 976(2002)409

Capillary electrophoretic determination of inorganic selenium species 984(2003)291

Determination of selenium compounds in urine by high-performance liquid chromatography-inductively coupled plasma mass spectrometry 997(2003)249

Sesquiterpene lactones

Review of the analytical techniques for sesquiterpenes and sesquiterpene lactones (Review) 967(2002)115

Sesquiterpenes

Review of the analytical techniques for sesquiterpenes and sesquiterpene lactones (Review) 967(2002)115

Sialic acid

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Sialidase

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Sialoglycans

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Sialoglycoproteins

Estimation of sialic acid in a sialoglycan and a sialoglycoprotein by capillary electrophoresis with in-capillary sialidase digestion 954(2002)259

Silane

Analysis and critical comparison of the reversed-phase and ion-exchange contributions to retention on polybutadiene coated zirconia and octadecyl silane bonded silica phases 996(2003)13

Sildenafil citrate

Determination of sildenafil citrate and its main metabolite by sample stacking with polarity switching using micellar electrokinetic chromatography 953(2002)279

Siloxanes

Novel alkyl-modified anionic siloxanes as pseudostationary phases for electrokinetic chromatography. III. Performance in organic-modified buffers 959(2002)255

Application of new high-performance liquid chromatography and solid-phase extraction materials to the analysis of pesticides in human urine 987(2003)381

Silver ions

Analysis of conjugated linoleic acid-enriched triacylglycerol mixtures by isocratic silver-ion high-performance liquid chromatography 953(2002)293

Analysis of ergosteroids. VIII: Enhancement of signal response of neutral steroidal compounds in liquid chromatographic–electrospray ionization mass spectrometric analysis by mobile phase additives 964(2002)137

Silver ion liquid-chromatographic mobility of plant diacylglycerols as a function of their composition and spatial arrangement 967(2002)269

Silybin

Analysis of the active components of silymarin 990(2003)239

Silychristin

Analysis of the active components of silymarin 990(2003)239

Silydianin

Analysis of the active components of silymarin 990(2003)239

Simmondsins

Simultaneous determination of carbohydrates and simmondsins in jojoba seed meal (*Simmondsia chinensis*) by gas chromatography 977(2002)257

Sodium

Role of the Na⁺ ion on phenol derivatives/hydroxypropyl- β -cyclodextrin complex formation on porous graphitic carbon phase 955(2002)197

Determination of sodium at low ng/l concentrations in simulated power plant waters by ion chromatography 995(2003)143

Sodium (2R)-3-[(4'-chloro(1,1'-biphenyl)-4-yl)sulfonyl]-2-hydroxy-2-[(phenylsulfonyl)methyl]propanoate

Determination of PNU-248686A, a novel matrix metalloproteinase inhibitor, in human plasma by liquid chromatography–tandem mass spectrometry, following protein precipitation in the 96-well plate format 987(2003)249

Sodium dodecylsulfate

Concentration of chlorophenols in water with sodium dodecylsulfate– γ -alumina admicelles for high-performance liquid chromatographic analysis 972(2002)205

Micellar liquid chromatography determination of B vitamins with direct injection and ultraviolet absorbance detection 984(2003)223

Comparison of standard capillary and chip separations of sodium dodecylsulfate–protein complexes 990(2003)153

Application of a single electrode, modified with polydiphenylamine and dodecyl sulfate, for the simultaneous amperometric determination of electro-inactive anions and cations in ion chromatography 997(2003)65

Sodium hyaluronate

Determination of the distribution of molecular masses of sodium hyaluronate by high-performance anion-exchange chromatography 986(2003)67

Sodium iodide

Determination of total acidity and of divalent cations by ion chromatography with *n*-hexadecylphosphocholine as the stationary phase 956(2002)139

Sodium octanoate

Liquid-phase microextraction of hydrophilic drugs by carrier-mediated transport 998(2003)61

Sodium perchlorate

Study of tryptophan enantiomer binding to a teicoplanin-based stationary phase using the perturbation technique. Investigation of the role of sodium perchlorate in solute retention and enantioselectivity 986(2003)45

Sodium taurocholate

Chiral separation of amino acids derivatized with fluoresceine-5-isothiocyanate by capillary electrophoresis and laser-induced fluorescence detection using mixed selectors of β -cyclodextrin and sodium taurocholate 955(2002)133

Soman

Development of an analytical methodology for sarin (GB) and soman (GD) in various military-related wastes 962(2002)183

Sorbic acid

Capillary zone electrophoresis in wide bore capillary tubes with fiber-coupled diode array detection 990(2003)23

Advances in methodology for the validation of methods according to the International Organization for Standardization. Application to the determination of benzoic and sorbic acids in soft drinks by high-performance liquid chromatography 992(2003)11

Comparing micellar electrokinetic chromatography and microemulsion electrokinetic chromatography for the analysis of preservatives in pharmaceutical and cosmetic products 993(2003)153

Sotalol

Use of a novel cation-exchange restricted-access material for automated sample clean-up prior to the determination of basic drugs in plasma by liquid chromatography 975(2002)145

Spectinomycin

Analysis of spectinomycin by liquid chromatography with pulsed electrochemical detection 953(2002)123

Spermidine

Enhancement of anion-exchange chromatography of DNA using compaction agents 984(2003)215

Spermine

Enhancement of anion-exchange chromatography of DNA using compaction agents 984(2003)215

Sphinganine

Comparative study of naphthalene-2,3-dicarboxaldehyde and *o*-phthalaldehyde fluorogenic reagents for chromatographic detection of sphingoid bases 977(2002)69

Sphingoid bases

Comparative study of naphthalene-2,3-dicarboxaldehyde and *o*-phthalaldehyde fluorogenic reagents for chromatographic detection of sphingoid bases 977(2002)69

Sphingosine

Comparative study of naphthalene-2,3-dicarboxaldehyde and *o*-phthalaldehyde fluorogenic reagents for chromatographic detection of sphingoid bases 977(2002)69

Squalane

Temperature effects on the retention of *n*-alkanes and arenes in helium–squalane gas–liquid chromatography. Experiment and molecular simulation 954(2002)181

Squalene

Preparative separation and purification of squalene from the microalga *Thraustochytrium* ATCC 26185 by high-speed counter-current chromatography 994(2003)37

Stanozolol

Improvement in steroid screening for doping control with special emphasis on stanozolol 985(2003)375

Starch

Use of inverse gas chromatography to determine thermodynamic parameters of aroma–starch interactions 969(2002)9

Fractionation of starch hydrolysates into dextrans with narrow molecular mass distribution and their detection by high-performance anion-exchange chromatography with pulsed amperometric detection 992(2003)75

Dextrin characterization by high-performance anion-exchange chromatography–pulsed amperometric detection and size-exclusion chromatography–multi-angle light scattering–refractive index detection 997(2003)79

Statins

Determination of cholesterol-lowering statin drugs in aqueous samples using liquid chromatography–electrospray ionization tandem mass spectrometry 998(2003)133

Steroidal glycosides

Chromatographic determination of plant saponins (Review) 967(2002)147

Steroid hormones

Separation and detection of neuroactive steroids from biological matrices (Review) 955(2002)151

Column-switching system with restricted access pre-column packing for an integrated sample cleanup and liquid chromatographic–mass spectrometric analysis of alkylphenolic compounds and steroid sex hormones in sediment 971(2002)37

Steroids

Artifact formation due to ethyl thio-incorporation into silylated steroid structures as determined in doping analysis 954(2002)199

Chromatographic behaviour of selected steroids and their inclusion complexes with β -cyclodextrin on octadecylsilica stationary phases with different carbon loads 955(2002)71

Separation and detection of neuroactive steroids from biological matrices (Review) 955(2002)151

Identification of dehydroepiandrosterone metabolites formed from human prostate homogenate using liquid chromatography–mass spectrometry and gas chromatography–mass spectrometry 961(2002)97

Analysis of ergosteroids. VIII: Enhancement of signal response of neutral steroidal compounds in liquid chromatographic–electrospray ionization mass spectrometric analysis by mobile phase additives 964(2002)137

Chromatographic characterisation of an estrogen-binding affinity column containing tetrapeptides selected by a combinatorial-binding approach 966(2002)71

Capillary electrophoretic enzyme immunoassay with electrochemical detection for cortisol 966(2002)187

Analysis on residues of estrogens, gestagens and androgens in kidney fat and meat with gas chromatography–tandem mass spectrometry 970(2002)235

Simple chamber for temperature-controlled planar chromatography 971(2002)193

Recent advances in the mass spectrometric analysis related to endocrine disrupting compounds in aquatic environmental samples (Review) 974(2002)23

Oligonucleotide covalent modifications by estrogen quinones evidenced by use of liquid chromatography coupled to negative electrospray ionization tandem mass spectrometry 976(2002)123

Determination of estrogens and their conjugates in water using solid-phase extraction followed by liquid chromatography–tandem mass spectrometry 984(2003)195

Improvement in steroid screening for doping control with special emphasis on stanozolol 985(2003)375

On-line sample preconcentration in micellar electrokinetic chromatography by sweeping with anionic–zwitterionic mixed micelles 985(2003)435

Use of liquid chromatography–diode-array detection and mass spectrometry for rapid product identification in biotechnological synthesis of a hydroxyprogesterone 992(2003)85

Liquid chromatography–(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment 1000(2003)503

Sterol esters

Comprehensive two-dimensional liquid chromatography×gas chromatography: evaluation of the applicability for the analysis of edible oils and fats 1000(2003)385

Sterols

Rapid isolation of biomarkers for compound specific radiocarbon dating using high-performance liquid chromatography and flow injection analysis–atmospheric pressure chemical ionisation mass spectrometry 978(2002)129

Solid-phase extraction–thin-layer chromatography–gas chromatography method for the detection of hazelnut oil in olive oils by determination of esterified sterols 985(2003)211

Steryl ferulates

Coupled liquid chromatography–gas chromatography for the rapid analysis of γ -oryzanol in rice lipids 985(2003)403

Stilbenoids

Preparative isolation of polyphenolic compounds from *Vitis vinifera* by centrifugal partition chromatography 964(2002)123

Strychnine

Determination of five toxic alkaloids in two common herbal medicines with capillary electrophoresis 973(2002)243

Succinylated gelatin

Determining the molar mass of a plasma substitute succinylated gelatin by size exclusion chromatography–multi-angle laser light scattering, sedimentation equilibrium and conventional size exclusion chromatography 957(2002)139

Sucrose

Effect of emulsifiers on surface properties of sucrose by inverse gas chromatography 969(2002)97

Sugars

see also Carbohydrates and Saccharides

Characterization of a novel diol column for high-performance liquid chromatography 987(2003)119

Sulfanilic acid

Capillary zone electrophoresis in wide bore capillary tubes with fiber-coupled diode array detection 990(2003)23

Sulfate

Optimization of artificial neural networks used for retention modelling in ion chromatography 973(2002)47

Determination of the solubility of inorganic salts by headspace gas chromatography 996(2003)157

Monitoring trace anion contamination in disk drive components 997(2003)259

Determination of chloride and sulfate in semiconductor-grade etchants comprised of acetic acid, nitric acid and phosphoric acid 997(2003)269

Sulfated cyclodextrins

Electrophoretic enantiomer separations at high pH using the new, single-isomer octakis(2,3-dimethyl-6-*O*-sulfo)- γ -cyclodextrin as chiral resolving agent 990(2003)63

Sulfated fucose

Non-aqueous capillary electrophoresis of the positional isomers of a sulfated monosaccharide 987(2003)467

Sulfides

Determination of volatile alkyl sulfides in wastewater by headspace solid-phase microextraction followed by gas chromatography–mass spectrometry 963(2002)249

Enthalpy of fuel gas odorants on surrogate soil surfaces by gas chromatography 975(2002)311

Sulfite

Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77

Sulfonamides

Quantification of veterinary antibiotics (sulfonamides and trimethoprim) in animal manure by liquid chromatography–mass spectrometry 952(2002)111

Liquid chromatographic–tandem mass spectrometric determination of selected sulphonamides in milk 960(2002)121

Application of liquid chromatography–electrospray ionization tandem mass spectrometry to the detection of 10 sulfonamides in honey 977(2002)77

Comparison of separation conditions and ionization methods for the liquid chromatography–mass spectrometric determination of sulfonamides 984(2003)153

Sulfonates

Capillary electrophoresis in aqueous–organic media. Ionic strength effects and limitations of the Hubbard–Onsager dielectric friction model 964(2002)213

Mass spectrometric strategies for the analysis of polar industrial chemicals and their by-products in wastewater and surface water 974(2002)111

Using second-order calibration to identify and quantify aromatic sulfonates in water by high-performance liquid chromatography in the presence of coeluting interferences 988(2003)277

Purification of quinoline yellow components using high-speed counter-current chromatography by stepwise increasing the flow-rate of the mobile phase 989(2003)249

Sulfonylureas

Determination of sulfonylurea herbicides by continuous-flow liquid membrane extraction on-line coupled with high-performance liquid chromatography 955(2002)183

Trace analysis of sulfonylurea herbicides in water by on-line continuous flow liquid membrane extraction–C₁₈ precolumn liquid chromatography with ultraviolet absorbance detection 995(2003)21

Sulfophthalic acids

Preparative separation of isomeric sulfophthalic acids by conventional and pH-zone-refining counter-current chromatography 966(2002)111

Sulfoxides

Separation of chiral sulfoxides by liquid chromatography using macrocyclic glycopeptide chiral stationary phases 955(2002)53

Determination of chiral sulfoxides in plasma by normal-phase liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 964(2002)161

Enantiomeric resolution of a series of chiral sulfoxides by high-performance liquid chromatography on polysaccharide-based columns with multimodal elution 987(2003)445

Sulfoxides, chiral

Super/subcritical fluid chromatography chiral separations with macrocyclic glycopeptide stationary phases 978(2002)185

Sulfur compounds

see also Organosulfur compounds

Quantification of volatile sulfur compounds in complex gaseous matrices by solid-phase microextraction 963(2002)57

Sulfur and nitrogen chemiluminescence detection in gas chromatographic analysis (Review) 976(2002)3

Development of a quantification method for the analysis of malodorous sulphur compounds in gaseous industrial effluents by solid-phase microextraction and gas chromatography–pulsed flame photometric detection 999(2003)71

Sulfuric acid

Separation of aliphatic carboxylic acids and benzenecarboxylic acids by ion-exclusion chromatography with various cation-exchange resin columns and sulfuric acid as eluent 997(2003)117

Sulfur mustard

Application of headspace solid-phase microextraction and gas chromatography–mass spectrometry for detection of the chemical warfare agent bis(2-chloroethyl) sulfide in soil 971(2002)185

Sultamicillin

Application of micellar electrokinetic chromatography to the determination of sultamicillin in oral pharmaceutical preparations 979(2002)315

Sumithrin

Isocratic reversed-phase liquid chromatographic method for the simultaneous determination of (*S*)-methoprene, MGK264, piperonyl butoxide, sumithrin and permethrin in pesticide formulation 983(2003)145

Supona

Determination of atrazine and four organophosphorus pesticides in ground water using solid phase microextraction (SPME) followed by gas chromatography with selected-ion monitoring 972(2002)183

Surfactants

Liquid exclusion–adsorption chromatography, a new technique for isocratic separation of nonionic surfactants. IV. Two-dimensional separation of fatty alcohol ethoxylates with focusing of fractions 952(2002)149

Liquid exclusion–adsorption chromatography: a new technique for isocratic separation of non-ionic surfactants. V. Two-dimensional separation of fatty acid polyglycol ethers 953(2002)89

Separation and simultaneous determination of water-soluble and fat-soluble vitamins by electrokinetic capillary chromatography 953(2002)257

Rapid and direct determination of iodide in seawater by electrostatic ion chromatography 956(2002)103

Determination of zwitterionic and cationic surfactants by high-performance liquid chromatography with chemiluminescent nitrogen detection 956(2002)237

Semi-permanent surfactant coatings for inorganic anion analysis in capillary electrophoresis 956(2002)271

Liquid chromatography–mass spectrometry method to determine alcohol ethoxylates and alkylamine ethoxylates in soil interstitial water, ground water and surface water samples 957(2002)45

Liquid chromatographic–tandem mass spectrometric determination of nonylphenol polyethoxylates and nonylphenol carboxylic acids in surface water 961(2002)245

Determination of toxic compounds in paper-recycling process waters by gas chromatography–mass spectrometry and liquid chromatography–mass spectrometry 963(2002)265

Enantiomeric separations using poly(L-valine) and poly(L-leucine) surfactants. Investigation of steric factors near the chiral center 966(2002)179

Determination of nonylphenol polyethoxylates in household detergents by high-performance liquid chromatography 968(2002)143

Pressurized liquid extraction of active ingredients (ginsenosides) from medicinal plants using non-ionic surfactant solutions 983(2003)153

Liquid chromatography of polyethylene glycol mono- and diesters: functional macromolecules or block copolymers? 984(2003)29

Ion chromatography on reversed-phase materials coated with mixed cationic and nonionic surfactants 985(2003)359

Simultaneous extraction of di(2-ethylhexyl) phthalate and nonionic surfactants from house dust. Concentrations in floor dust from 15 Danish schools 986(2003)179

Specific analyte–electrolyte additive interaction in transient isotachopheresis–capillary electrophoresis 993(2003)205

Modification of ion chromatographic separations by ionic and nonionic surfactants 997(2003)21

Mixed aggregate-based acid-induced cloud-point extraction and ion-trap liquid chromatography–mass spectrometry for the determination of cationic surfactants in sewage sludge 998(2003)143

Determination of linear alkylbenzenesulfonates in aqueous matrices by ion-pair solid-phase microextraction–in-port derivatization–gas chromatography–mass spectrometry 999(2003)51

Liquid chromatography–(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment (Review) 1000(2003)503

On-line micellar electrokinetic chromatography–mass spectrometry: feasibility of direct introduction of non-volatile buffer and surfactant into the electrospray interface (Review) 1000(2003)953

T**Tannins**

High-performance liquid chromatographic determination of oligomeric procyanidins from dimers up to the hexamer in hawthorn 968(2002)53

Analysis of commercial vegetable tanning agents by reversed-phase liquid chromatography–electrospray ionization–tandem mass spectrometry and its application to wastewater 970(2002)191

Analysis of proanthocyanidins by high-performance gel permeation chromatography 995(2003)99

Tartaric acid

High-speed simultaneous ion-exclusion/cation-exchange chromatography of anions and cations on a weakly acidic cation-exchange resin column 997(2003)219

Teicoplanin

Study of tryptophan enantiomer binding to a teicoplanin-based stationary phase using the perturbation technique. Investigation of the role of sodium perchlorate in solute retention and enantioselectivity 986(2003)45

Use of short-end injection capillary packed with a glycopeptide antibiotic stationary phase in electrochromatography and capillary liquid chromatography for the enantiomeric separation of hydroxy acids 990(2003)143

Teicoplanin aglycone

Enantioselective ion-exclusion chromatography on teicoplanin aglycone and (+)-(18-crown-6)-2,3,11,12-tetracarboxylic acid stationary phases 983(2003)91

Terbutaline

Use of a novel cation-exchange restricted-access material for automated sample clean-up prior to the determination of basic drugs in plasma by liquid chromatography 975(2002)145

Terbutylazine

Effect of solvents on the selectivity of terbutylazine imprinted polymer sorbents used in solid-phase extraction 973(2002)1

Terephthalylidene dicamphor sulfonic acid

Determination of water-soluble UV-filters in sunscreen sprays by liquid chromatography 977(2002)277

Terpenes

Capillary electrophoretic separation of phenolic diterpenes from rosemary 953(2002)251

Gas chromatographic determination of vapour pressure and related thermodynamic properties of monoterpenes and biogenically related compounds 955(2002)105

Sensitive indoor air monitoring of monoterpenes using different adsorbents and thermal desorption gas chromatography with mass-selective detection 962(2002)175

Volatile components from *Anthriscus sylvestris* (L.) Hoffm 966(2002)233

Analysis by gas chromatography–mass spectrometry of the essential oils from the aerial parts of *Rutheopsis herbanica* (Bolle) Hans. & Kunk., gathered in Fuerteventura (Canary Islands) 984(2003)159

Preparative separation and purification of squalene from the microalga *Thraustochytrium* ATCC 26185 by high-speed counter-current chromatography 994(2003)37

Attempt to unravel the composition of toxaphene by comprehensive two-dimensional gas chromatography with selective detection 994(2003)179

Quantitative determination of phenolic diterpenes in rosemary extracts. Aspects of accurate quantification 995(2003)119

Terpene trilactones

Chemical analysis of *Ginkgo biloba* leaves and extracts (Review) 967(2002)21

Terpenoids

Screening of *Catharanthus roseus* secondary metabolites by high-performance liquid chromatography 955(2002)87

Determination of toxic compounds in paper-recycling process waters by gas chromatography–mass spectrometry and liquid chromatography–mass spectrometry 963(2002)265

Review of the analytical techniques for sesquiterpenes and sesquiterpene lactones (Review) 967(2002)115

Terpenol

Determination of minor and trace volatile compounds in wine by solid-phase extraction and gas chromatography with mass spectrometric detection 966(2002)167

Testosterones

Identification of dehydroepiandrosterone metabolites formed from human prostate homogenate using liquid chromatography–mass spectrometry and gas chromatography–mass spectrometry 961(2002)97

Tetraazadodecanetetraacetic acid

Isotachophoretic determination of stability constants of Ho and Y complexes with diethylenetriaminepentaacetic acid and 1,4,7,10-tetraazadodecane-N,N',N'',N'''-tetraacetic acid 990(2003)311

Tetrabutylammonium hydroxide

Selective determination of ammonium ions by high-speed ion-exclusion chromatography on a weakly basic anion-exchange resin column 997(2003)191

Tetrachloroethylene

On-site calibration method based on stepwise solid-phase microextraction 999(2003)43

Tetracyanoquinodimethane

Analysis of active chemical species generated by electrolysis using non-aqueous capillary electrophoresis. Detection of the anion radical and the divalent anion of tetracyanoquinodimethane 979(2002)91

Tetracyclines

Thin-layer chromatography–matrix-assisted laser desorption ionisation–time-of-flight mass spectrometry using particle suspension matrices 958(2002)249

Validation of a high-performance liquid chromatography method for the determination of oxytetracycline, tetracycline, chlortetracycline and doxycycline in bovine milk and muscle 987(2003)227

Tetraethylammonium nitrate

Size-exclusion chromatography in 1,1,1,3,3,3-hexafluoro-2-propanol 964(2002)169

Tetrakis(pentafluorophenyl)porphyrin

Influencing electroosmotic flow and selectivity in open tubular electrochromatography by tetrakis(pentafluorophenyl)porphyrin as capillary wall modifier 990(2003)111

Tetramethylammonium hydroxide

Highly sensitive determination of a polymeric hindered amine light stabilizer in polypropylene by reactive thermal desorption-gas chromatography using nitrogen-specific detection 993(2003)137

Tetramethylenediamine

Extension of separation range in capillary isoelectric focusing for resolving highly basic biomolecules 979(2002)271

Tetramethyl-*p*-silphenylene-dimethyl, diphenylsiloxane copolymers

Chromatographic properties of tetramethyl-*p*-silphenylene-dimethyl, diphenylsiloxane copolymers as stationary phases for gas-liquid chromatography 993(2003)59

Tetraphenylborate

Determination of electroosmotic flow mobility with a pressure-mediated dual-ion technique for capillary electrophoresis with conductivity detection using organic solvents 960(2002)199

Tetraphenylphosphonium

Determination of electroosmotic flow mobility with a pressure-mediated dual-ion technique for capillary electrophoresis with conductivity detection using organic solvents 960(2002)199

Thiabendazole

Ion trap tandem mass spectrometric identification of thiabendazole phototransformation products on titanium dioxide 984(2003)59

Thienylpyrazolyethanamines

Enantioseparation of basic pharmaceutical compounds by capillary electrophoresis using sulfated cyclodextrins. Application to E-6006, a novel antidepressant 990(2003)91

Thiocarbamates

Separation and determination of emetine dithiocarbamate metal complexes by capillary electrophoresis with chemiluminescence detection of the tris(2,2'-bipyridine)-ruthenium(II) complex 958(2002)283

Thiocyanomethylthiobenzothiazol

Determination of toxic compounds in paper-recycling process waters by gas chromatography-mass spectrometry and liquid chromatography-mass spectrometry 963(2002)265

Thiols

High-performance liquid chromatographic separation and indirect fluorescence detection of thiols 972(2002)221

Enthalpy of fuel gas odorants on surrogate soil surfaces by gas chromatography 975(2002)311

Assay of total homocysteine and other thiols by capillary electrophoresis and laser-induced fluorescence detection. II. Pre-analytical and analytical conditions 979(2002)255

Development of hydrophilic fluorogenic derivatization reagents for thiols: 4-(*N*-acetylaminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole and 4-(*N*-trichloroacetylaminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole 982(2002)111

Determination of dissolved thiols using solid-phase extraction and liquid chromatographic determination of fluorescently derivatized thiolic compounds 998(2003)31

Thione 1,1-dioxides

Enantioselective liquid chromatography of C₃-chiral 2,3-dihydro-1,2,5-benzothiadiazepin-4(*5H*)-one and thione 1,1-dioxides on polyacrylamide- and polysaccharide-based chiral stationary phases 993(2003)17

Thiosulfate

Rapid ion chromatography of L-ascorbic acid, nitrite, sulfite, oxalate, iodide and thiosulfate by isocratic elution utilizing a postcolumn reaction with cerium(IV) and fluorescence detection 956(2002)77

Thiosulfates

Aroma analysis of fresh and preserved onions and leek by dual solid-phase microextraction-liquid extraction and gas chromatography-mass spectrometry 963(2002)89

Thiourea compounds

Determination of pesticide residues in coconut water by liquid-liquid extraction and gas chromatography with electron-capture plus thermionic specific detection and solid-phase extraction and high-performance liquid chromatography with ultraviolet detection 957(2002)201

Improvement of the long-term stability of polyimide-coated fused-silica capillaries used in capillary electrophoresis and capillary electrochromatography 961(2002)35

Thrombomodulin

Structural analysis of a glycoprotein by liquid chromatography-mass spectrometry and liquid chromatography with tandem mass spectrometry. Application to recombinant human thrombomodulin 978(2002)141

Thymine

Determination of purine and pyrimidine bases in DNA by micellar electrokinetic capillary chromatography with electrochemical detection 954(2002)267

Thymol

Determination of acaricides in honey by high-performance liquid chromatography with photodiode array detection 954(2002)173

Extraction of thymol, eucalyptol, menthol, and camphor residues from honey and beeswax. Determination by gas chromatography with flame ionization detection 954(2002)207

Titanium dioxide

Effects of dehydration on the apolar surface energetics of inorganic paper fillers 972(2002)241

Ion trap tandem mass spectrometric identification of thiabendazole phototransformation products on titanium dioxide 984(2003)59

Titanium tungstophosphate

Titanium(IV) tungstosilicate and titanium(IV) tungstophosphate: two new inorganic ion exchangers 987(2003)147

Titanium tungstosilicate

Titanium(IV) tungstosilicate and titanium(IV) tungstophosphate: two new inorganic ion exchangers 987(2003)147

Tocainide

Enantiomeric separation of tocainide and its analogues on an optically active crown ether-based stationary phase by liquid chromatography 996(2003)233

Tocopherolhydroquinones

Determination of tocopherols, tocopherolquinones and tocopherolhydroquinones by gas chromatography–mass spectrometry and preseparation with lipophilic gel chromatography 976(2002)215

Tocopherolquinones

Determination of tocopherols, tocopherolquinones and tocopherolhydroquinones by gas chromatography–mass spectrometry and preseparation with lipophilic gel chromatography 976(2002)215

Tocopherols

see also Vitamins

Determination of tocopherols, tocopherolquinones and tocopherolhydroquinones by gas chromatography–mass spectrometry and preseparation with lipophilic gel chromatography 976(2002)215

High-performance liquid chromatographic determination of α -tocopherol in macroalgae 976(2002)277

Measurements of the major isoforms of vitamins A and E and carotenoids in the blood of people with spinal-cord injuries 987(2003)359

Use of synthetic adsorbents in preparative normal-phase liquid chromatography 989(2003)19

Tocotrienols

Use of synthetic adsorbents in preparative normal-phase liquid chromatography 989(2003)19

Toluene

Determination of benzylsuccinic acid in gasoline-contaminated groundwater by solid-phase extraction coupled with gas chromatography–mass spectrometry 953(2002)215

Temperature effects on the retention of *n*-alkanes and arenes in helium–squalane gas–liquid chromatography. Experiment and molecular simulation 954(2002)181

Inverse gas chromatographic measurement of solubility parameters in liquid crystalline systems 964(2002)199

Experimental adsorption isotherms based on inverse gas chromatography 969(2002)81

Characterization and source identification of hydrocarbons in water samples using multiple analytical techniques 971(2002)173

Role of the retaining precolumn in large-volume on-column injections of volatiles to gas chromatography 975(2002)95

Use of experimental design for the purge-and-trap-gas chromatography–mass spectrometry determination of methyl *tert*-butyl ether, *tert*-butyl alcohol and BTEX in groundwater at trace level 975(2002)113

Determination of volatile organic compounds in ambient air. Comparison of methods 976(2002)369

Analytical characteristics of the determination of benzene, toluene, ethylbenzene and xylenes in water by headspace solvent microextraction 977(2002)143

Headspace microdrop analysis—an alternative test method for gasoline diluent and benzene, toluene, ethylbenzene and xylenes in used engine oils 983(2003)205

Determination of siloxane–water partition coefficients by capillary extraction–high-resolution gas chromatography. Study of aromatic solvents 985(2003)39

Capillary extractors for “negligible depletion” sampling of benzene, toluene, ethylbenzene and xylenes by in-tube solid-phase microextraction 985(2003)85

In-tube solid-phase microextraction sampler for long-term storage 985(2003)93

Trace analysis of benzene, toluene, ethylbenzene and xylene isomers in environmental samples by low-pressure gas chromatography–ion trap mass spectrometry 985(2003)191

Competitive extraction of multi-component contaminants in water by Carboxen–polydimethylsiloxane fiber during solid-phase microextraction 988(2003)177

Simultaneous determination of methyl *tert.*-butyl ether and its degradation products, other gasoline oxygenates and benzene, toluene, ethylbenzene and xylenes in Catalonian groundwater by purge-and-trap-gas chromatography–mass spectrometry 995(2003)171

On-site calibration method based on stepwise solid-phase microextraction 999(2003)43

Torasemide

Multivariate optimisation of a cyclodextrin-assisted-capillary zone electrophoretic method for the separation of torasemide and its metabolites 990(2003)271

Toxins

see also Aflatoxins, Mycotoxins and Neurotoxins

Analysis of cyanobacterial hepatotoxins in water samples by microbore reversed-phase liquid chromatography–electrospray ionisation mass spectrometry 959(2002)103

Separation of diastereoisomers of podophyllum lignans by micellar electrokinetic chromatography 959(2002)263

Analysis of anatoxin-a in aqueous samples by solid-phase microextraction coupled to high-performance liquid chromatography with fluorescence detection and on-fiber derivatization 963(2002)295

Comparison of solid-phase extraction methods for the determination of azaspiracids in shellfish by liquid chromatography–electrospray mass spectrometry 963(2002)353

Direct detection of yessotoxin and its analogues by liquid chromatography coupled with electrospray ion trap mass spectrometry 968(2002)61

Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3

Characterisation of botulinum toxins type A and B, by matrix-assisted laser desorption ionisation and electrospray mass spectrometry 970(2002)95

Liquid chromatography with electrospray ion-trap mass spectrometry for the determination of yessotoxins in shellfish 976(2002)329

Analysis of tropane and related alkaloids (Review) 978(2002)1

Determination of T-2 toxin in cereal grains by liquid chromatography with fluorescence detection after immunoaffinity column clean-up and derivatization with 1-anthrolylnitrite 989(2003)257

Liquid chromatography–mass spectrometry of spiroketal stereoisomers of pectenotoxins and the analysis of novel pectenotoxin isomers in the toxic dinoflagellate *Dinophysis acuta* from New Zealand 992(2003)141

Further improvements in the application of high-performance liquid chromatography, capillary electrophoresis and capillary electrochromatography to the analysis of algal toxins in the aquatic environment 992(2003)159

Liquid chromatography–electrospray ionisation-mass spectrometry based method for the simultaneous determination of algal and cyanobacterial toxins in phytoplankton from marine waters and lakes followed by tentative structural elucidation of microcystins 994(2003)45

The role of chromatography in the hunt for red tide toxins 1000(2003)527

Transferrin

Evaluation and optimization of capillary zone electrophoresis with different dynamic capillary coatings for the determination of carbohydrate-deficient transferrin in human serum 979(2002)43

Transition metals

see also Metals

Retention of alkali, alkaline earth and transition metals on an itaconic acid cation-exchange column. Eluent pH, ionic strength and temperature effects upon selectivity 964(2002)113

Determination of transition metal ions in tobacco as their 2-(2-quinolinylazo)-5-dimethylaminophenol derivatives using reversed-phase liquid chromatography with UV–VIS detection 971(2002)243

Triacylglycerols

Analysis of conjugated linoleic acid-enriched triacylglycerol mixtures by isocratic silver-ion high-performance liquid chromatography 953(2002)293

Comparative analysis of different plant oils by high-performance liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 976(2002)255

Triadimefon

Separation of triadimefon and triadimenol enantiomers and diastereoisomers by supercritical fluid chromatography 986(2003)135

Triadimenol

Separation of triadimefon and triadimenol enantiomers and diastereoisomers by supercritical fluid chromatography 986(2003)135

Triazines

Galactosyl-biomimetic dye-ligands for the purification of *Dactylium dendroides* galactose oxidase 954(2002)137

New triazine spectroscopic reagent for the separation of DL-amino acids by micellar electrokinetic chromatography 955(2002)125

Comparison of three different poly(dimethylsiloxane)–divinylbenzene fibres for the analysis of pesticide multiresidues in water samples: structure and efficiency 963(2002)19

Membrane-assisted solvent extraction of triazines and other semi-volatile contaminants directly coupled to large-volume injection–gas chromatography–mass spectrometric detection 963(2002)27

Multiresidue method for the simultaneous determination of four groups of pesticides in ground and drinking waters, using solid-phase microextraction–gas chromatography with electron-capture and thermionic specific detection 968(2002)177

Combination of supported liquid membrane and solid-phase extraction for sample pretreatment of triazine herbicides in juice prior to capillary electrophoresis determination 975(2002)219

Determination of triazines in soil by microwave-assisted extraction followed by solid-phase microextraction and gas chromatography–mass spectrometry 985(2003)167

Determination of herbicides and a metabolite in human urine by liquid chromatography–electrospray ionization mass spectrometry 987(2003)375

Experimental comparison of three monoclonal antibodies for the class-selective immunoextraction of triazines. Correlation with molecular modeling and principal component analysis studies 999(2003)3

Optimization of the class-selective extraction of triazines from aqueous samples using a molecularly imprinted polymer by a comprehensive approach of the retention mechanism 999(2003)23

Analysis of 35 priority semivolatile compounds in water by stir bar sorptive extraction–thermal desorption–gas chromatography–mass spectrometry. I. Method optimisation 999(2003)91

Triazoles

Solid-phase microextraction and gas chromatography–mass spectrometry for the rapid screening of triazole residues in wine and strawberries 967(2002)255

Trichloroanisole

Evaluation of an extraction method in the determination of the 2,4,6-trichloroanisole content of tainted cork 953(2002)207

Determination of 2,4,6-trichloroanisole in wines by headspace solid-phase microextraction and gas chromatography–electron-capture detection 977(2002)1

Trichlorobenzenes

Trace analysis of trichlorobenzenes in fish by microwave-assisted extraction and gas chromatography–electron-capture detection 993(2003)71

Trichothecenes

Liquid chromatographic determination of toxigenic secondary metabolites produced by *Fusarium* strains 955(2002)245

Simultaneous quantification of A-trichothecene mycotoxins in grains using liquid chromatography–atmospheric pressure chemical ionisation mass spectrometry 968(2002)129

Triclosan

Comparing micellar electrokinetic chromatography and microemulsion electrokinetic chromatography for the analysis of preservatives in pharmaceutical and cosmetic products 993(2003)153

Tridecane

Influence of chromatographic conditions on separation in comprehensive gas chromatography 962(2002)135

Triethylamine

In flow activation of diol–silica with cyanogen bromide and triethylamine for preparing high-performance affinity chromatographic columns 984(2003)9

Use of solid-phase microextraction coupled with gas chromatography for the determination of residual solvents in pharmaceutical products 999(2003)195

Trifluoroacetic acid

Analysis of ergosteroids. VIII: Enhancement of signal response of neutral steroidal compounds in liquid chromatographic–electrospray ionization mass spectrometric analysis by mobile phase additives 964(2002)137

2,2,2-Trifluoroethanol

Change of mobile phase pH during gradient reversed-phase chromatography with 2,2,2-trifluoroethanol–water as mobile phase and its effect on the chromatographic hydrophobicity index determination 954(2002)77

Triglycerides

At-line gas chromatographic–mass spectrometric analysis of fatty acid profiles of green microalgae using a direct thermal desorption interface 959(2002)191

Characterization of triglycerides in vegetable oils by silver-ion packed-column supercritical fluid chromatography coupled to mass spectroscopy with atmospheric pressure chemical ionization and coordination ion spray 974(2002)231

Comprehensive two-dimensional liquid chromatography×gas chromatography: evaluation of the applicability for the analysis of edible oils and fats 1000(2003)385

Trimethoprim

Quantification of veterinary antibiotics (sulfonamides and trimethoprim) in animal manure by liquid chromatography–mass spectrometry 952(2002)111

Comparison between liquid chromatography–UV detection and liquid chromatography–mass spectrometry for the characterization of impurities and/or degradants present in trimethoprim tablets 970(2002)141

Triterpene glycosides

Chromatographic determination of plant saponins (Review) 967(2002)147

Tröger's base

Measurement and modeling of the equilibrium behavior of the Tröger's base enantiomers on an amylose-based chiral stationary phase 955(2002)35

Tropane alkaloids

Analysis of tropane and related alkaloids (Review) 978(2002)1

Preparation of a molecularly imprinted polymer for the solid-phase extraction of scopolamine with hyoscyamine as a dummy template molecule 987(2003)103

Trypsin inhibitors

Hydrophobicity gradient columns for the separation of trypsin inhibitor by hydrophobic interaction chromatography at low salt concentration 986(2003)83

Temperature influence on the dynamic binding capacity of a monolithic ion-exchange column 987(2003)159

Tryptophan

Improving separation efficiency of capillary zone electrophoresis of tryptophan and phenylalanine with the transient moving chemical reaction boundary method 952(2002)39

Effect of feed zone width on product purity in preparative-scale, continuous free-flow isoelectric focusing separation of enantiomers 979(2002)123

Study of tryptophan enantiomer binding to a teicoplanin-based stationary phase using the perturbation technique. Investigation of the role of sodium perchlorate in solute retention and enantioselectivity 986(2003)45

Tween 20

Determination of benzophenones in a cosmetic matrix by supercritical fluid extraction and capillary electrophoresis 987(2003)269

Tyramine

Simultaneous separation of common mono- and divalent cations on an acid-treated silica gel column by ion chromatography with indirect photometric detection and tyramine–oxalic acid, containing 18-crown-6 as eluent 956(2002)173

Tyrosines

Choice of different dyes to label tyrosine and nitrotyrosine 979(2002)209

New approach to the simultaneous analysis of catecholamines and tyrosines in biological fluids 987(2003)349

U

UK-103,320

Determination of sildenafil citrate and its main metabolite by sample stacking with polarity switching using micellar electrokinetic chromatography 953(2002)279

Undecane

Characterization of polyarylamide fibers by inverse gas chromatography 962(2002)153

Uracil

High-performance liquid chromatographic stationary phases based on poly(methyloctylsiloxane) immobilized on silica. III. Stability evaluations 987(2003)93

Determination of uracil in 5-fluorouracil substance by high-performance liquid chromatography 994(2003)221

Uranium

Column chromatographic separation of uranium(VI) and other elements using poly(dibenzo-18-crown-6) and ascorbic acid medium 983(2003)277

Urea

Dual gradient ion-exchange chromatography improved refolding yield of lysozyme 959(2002)113

High-performance capillary zone electrophoretic assay for markers of diabetic nephropathy in plasma and urine 987(2003)477

Separation and determination of denatured α_{s1} -, α_{s2} -, β - and κ -caseins by hydrophobic interaction chromatography in cows', ewes' and goats' milk, milk mixtures and cheeses 994(2003)59

Uric acid

Carbon fiber bundle–Au–Hg dual-electrode detection for capillary electrophoresis 971(2002)217

High-performance capillary zone electrophoretic assay for markers of diabetic nephropathy in plasma and urine 987(2003)477

V

Valepotriates

Determination of valepotriates (Review) 967(2002)131

Valeraldehyde

Time-weighted average sampling of airborne *n*-valeraldehyde by a solid-phase microextraction device 954(2002)191

Valerian

Determination of valepotriates (Review) 967(2002)131

Valerianaceae

Determination of valepotriates (Review) 967(2002)131

Valine

Kinetic study of the polymerization of α -amino acid *N*-carboxyanhydrides in aqueous solution using capillary electrophoresis 952(2002)239

Vanadium

Determination of vanadium as 4-(2-pyridylazo)resorcinol–hydrogen peroxide ternary complexes by ion–interaction reversed-phase liquid chromatography 956(2002)221

Vanadyl carboxylate

Separation of vanadium isotopes by ion-exchange chromatography 989(2003)175

Vancomycin

Development and validation of an improved method for the analysis of vancomycin by liquid chromatography. Selectivity of reversed-phase columns towards vancomycin components 996(2003)115

Vanillin

Determination of minor and trace volatile compounds in wine by solid-phase extraction and gas chromatography with mass spectrometric detection 966(2002)167

Vapona

Determination of atrazine and four organophosphorus pesticides in ground water using solid phase microextraction (SPME) followed by gas chromatography with selected-ion monitoring 972(2002)183

Variagatic acid

Simple method for reversed-phase high-performance liquid chromatographic analysis of fungal pigments in fruit-bodies of Boletales (Fungi) 964(2002)129

Variagatorubin

Simple method for reversed-phase high-performance liquid chromatographic analysis of fungal pigments in fruit-bodies of Boletales (Fungi) 964(2002)129

Verapamil

Verapamil: new insight into the molecular mechanism of drug oxidation in the human heart 970(2002)117

Verbascoside

Separation and determination of phenylpropanoid glycosides from *Pedicularis* species by capillary electrophoresis 986(2003)163

Viagra

Determination of sildenafil citrate and its main metabolite by sample stacking with polarity switching using micellar electrokinetic chromatography 953(2002)279

Vincamine

Lipophilicity of vinpocetine and related compounds characterized by reversed-phase thin-layer chromatography 996(2003)195

Vinpocetine

Lipophilicity of vinpocetine and related compounds characterized by reversed-phase thin-layer chromatography 996(2003)195

Visnagin

Determination of khellin and visnagin in *Ammi visnaga* fruits by capillary electrophoresis 954(2002)291

Vitamins

see also Ascorbic acid, Carotenes and Tocopherols

Separation and simultaneous determination of water-soluble and fat-soluble vitamins by electrokinetic capillary chromatography 953(2002)257

Optimizing separation conditions for riboflavin, flavin mononucleotide and flavin adenine dinucleotide in capillary zone electrophoresis with laser-induced fluorescence detection 968(2002)229

Recent advances in the application of mass spectrometry in food-related analysis (Review) 970(2002)3

Micellar liquid chromatography determination of B vitamins with direct injection and ultraviolet absorbance detection 984(2003)223

Simultaneous determination of water-soluble vitamins in a vitamin-enriched drink by an in-capillary enzyme reaction method 986(2003)153

Measurements of the major isoforms of vitamins A and E and carotenoids in the blood of people with spinal-cord injuries 987(2003)359

Vitronectin

Continuous purification of a clotting factor IX concentrate and continuous regeneration by preparative annular chromatography 972(2002)115

Volatile organic compounds

see also Alcohols, Carbonyl compounds and Hydrocarbons

Optimisation of headspace solid-phase microextraction for analysis of aromatic compounds in vinegar 953(2002)7

Gas chromatography for in situ analysis of a cometary nucleus. III. Multi-capillary column system for the cometary sampling and composition experiment of the Rosetta lander probe 953(2002)165

Minimization of water vapor interference in the analysis of non-methane volatile organic compounds by solid adsorbent sampling 958(2002)219

Multicomponent analysis of volatile organic compounds in water by automated purge and trap coupled to gas chromatography–mass spectrometry 959(2002)181

Optimisation of solid-phase microextraction of volatiles 960(2002)159

Dynamic versus static sampling for the quantitative analysis of volatile organic compounds in air with polydimethylsiloxane–Carboxen solid-phase microextraction fibers 963(2002)49

Monitoring volatile compounds during dry-cured ham ripening by solid-phase microextraction coupled to a new direct-extraction device 963(2002)83

Development of a headspace solid-phase microextraction–gas chromatography–mass spectrometry method for the identification of odour-causing volatile compounds in packaging materials 963(2002)381

Continuous permeation of analytes through a thin poly(dimethylsiloxane) membrane followed by sorbent trapping for their gas chromatographic monitoring 964(2002)1

Volatile components from *Anthriscus sylvestris* (L.) Hoffm 966(2002)233

Gas chromatography–mass spectrometry as a tool for estimating odour concentrations of biofilter effluents at aerobic composting and rendering plants 970(2002)259

Wet effluent diffusion denuder technique and the determination of volatile organic compounds in air. II. Monoterpenes 973(2002)211

Role of the retaining precolumn in large-volume on-column injections of volatiles to gas chromatography 975(2002)95

How to estimate moments and quantiles of environmental data sets with non-detected observations? A case study on volatile organic compounds in marine water samples 975(2002)123

Sub-second thermal desorption of a micro-sorbent trap for the analysis of ambient volatile organic compounds 976(2002)39

Determination of volatile organic compounds in ambient air. Comparison of methods 976(2002)369

Using different types of capillary chromatographic columns as denudation traps: a comparison of sorption properties 977(2002)115

Laser-induced fluorescence and UV detection of derivatized aldehydes in air samples using capillary electrophoresis 979(2002)409

Analysis of virgin olive oil volatile compounds by headspace solid-phase microextraction coupled to gas chromatography with mass spectrometric and flame ionization detection 983(2003)19

Comprehensive two-dimensional gas chromatography of volatile and semi-volatile components using a diaphragm valve-based instrument 983(2003)195

Analysis by gas chromatography–mass spectrometry of the essential oils from the aerial parts of *Rutheopsis herbanica* (Bolle) Hans. & Kunk., gathered in Fuerteventura (Canary Islands) 984(2003)159

New high-performance cryofocalizer injector for in-tube solid-phase microextraction and headspace capillary gas chromatographic applications 985(2003)67

In-tube solid-phase microextraction sampler for long-term storage 985(2003)93

Comparison of solid-phase microextraction and purge-and-trap methods for the analysis of the volatile fraction of butter 985(2003)117

Analysis of volatiles of malt whisky by solid-phase microextraction and stir bar sorptive extraction 985(2003)221

Flavour analysis of Greek white wine by solid-phase microextraction–capillary gas chromatography–mass spectrometry 985(2003)233

Direct quantitation of volatile organic compounds in packaging materials by headspace solid-phase microextraction–gas chromatography–mass spectrometry 985(2003)247

Relaxed eddy accumulation, a new technique for measuring emission and deposition fluxes of volatile organic compounds by capillary gas chromatography and mass spectrometry 985(2003)283

Headspace gas chromatography–mass spectrometry of volatile compounds in murici (*Byrsonima crassifolia* L. Rich) 985(2003)297

Determination of the disproportionation products of limonene used for the catalytic hydrogenation of castor oil 985(2003)313

“Cold” solid-phase microextraction method for the determination of volatile halocarbons present in the atmosphere at ultra-trace levels 988(2003)167

Determination of major compounds in sweet wines by headspace solid-phase microextraction and gas chromatography 991(2003)13

Changes in the order of elution of some organic compounds in high-resolution gas chromatography on polar columns depending on the injection method and water content in the sample 992(2003)199

Description and characterization of an on-line system for long-term measurements of isoprene, methyl vinyl ketone, and methacrolein in ambient air 995(2003)185

Measurement of toxic volatile organic compounds in indoor air of semiconductor foundries using multisorbent adsorption/thermal desorption coupled with gas chromatography–mass spectrometry 996(2003)225

Identification of aroma active compounds in orange essence oil using gas chromatography–olfactometry and gas chromatography–mass spectrometry 998(2003)201

Use of solid-phase micro-extraction as a sampling technique in the determination of volatiles emitted by flowers, isolated flower parts and pollen 998(2003)229

Development of a quantification method for the analysis of malodorous sulphur compounds in gaseous industrial effluents by solid-phase microextraction and gas chromatography–pulsed flame photometric detection 999(2003)71

Multiple headspace solid-phase microextraction for the quantitative determination of volatile organic compounds in multilayer packagings 999(2003)155

State-of-the-art of gas chromatography-based methods for analysis of anthropogenic volatile organic compounds in estuarine waters, illustrated with the river Scheldt as an example 1000(2003)283

Volatile sulfur compounds

Quantification of volatile sulfur compounds in complex gaseous matrices by solid-phase microextraction 963(2002)57

Determination of volatile alkyl sulfides in wastewater by headspace solid-phase microextraction followed by gas chromatography–mass spectrometry 963(2002)249

VX

Detection of VX contamination in soil through solid-phase microextraction sampling and gas chromatography/mass spectrometry of the VX degradation product bis(diisopropylaminoethyl)disulfide 992(2003)1

W

Warfarin

Monolithic silica column for in-tube solid-phase microextraction coupled to high-performance liquid chromatography 985(2003)351

Affinity electrochromatography of acidic drugs using a liposome-modified capillary 990(2003)281

Water

Minimization of water vapor interference in the analysis of non-methane volatile organic compounds by solid adsorbent sampling 958(2002)219

Thermodynamic and kinetic models for the extraction of essential oil from savory and polycyclic aromatic hydrocarbons from soil with hot (subcritical) water and supercritical CO₂ 975(2002)175

Quantitative accuracy in the gas chromatographic analysis of solvent mixtures 985(2003)21

Changes in the order of elution of some organic compounds in high-resolution gas chromatography on polar columns depending on the injection method and water content in the sample 992(2003)199

Wax esters

Comprehensive two-dimensional liquid chromatography×gas chromatography: evaluation of the applicability for the analysis of edible oils and fats 1000(2003)385

Whey proteins

Separation and determination of denatured α_{s1} -, α_{s2} -, β - and κ -caseins by hydrophobic interaction chromatography in cows', ewes' and goats' milk, milk mixtures and cheeses 994(2003)59

X

Xanthenes

Pyrolysis–gas chromatography–mass spectrometry of cured phenolic resins 993(2003)131

Xanthone glycosides, acylated

Identification of acylated xanthone glycosides by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry in positive and negative modes from the lichen *Umbilicaria proboscidea* 995(2003)109

Xerocomic acid

Simple method for reversed-phase high-performance liquid chromatographic analysis of fungal pigments in fruit-bodies of Boletales (Fungi) 964(2002)129

Xylenes

Determination of benzylsuccinic acid in gasoline-contaminated groundwater by solid-phase extraction coupled with gas chromatography–mass spectrometry 953(2002)215

Temperature effects on the retention of *n*-alkanes and arenes in helium–squalane gas–liquid chromatography. Experiment and molecular simulation 954(2002)181

Inverse gas chromatographic measurement of solubility parameters in liquid crystalline systems 964(2002)199

Characterization and source identification of hydrocarbons in water samples using multiple analytical techniques 971(2002)173

Role of the retaining precolumn in large-volume on-column injections of volatiles to gas chromatography 975(2002)95

Use of experimental design for the purge-and-trap-gas chromatography–mass spectrometry determination of methyl *tert*-butyl ether, *tert*-butyl alcohol and BTEX in groundwater at trace level 975(2002)113

Determination of volatile organic compounds in ambient air. Comparison of methods 976(2002)369

Analytical characteristics of the determination of benzene, toluene, ethylbenzene and xylenes in water by headspace solvent microextraction 977(2002)143

Headspace microdrop analysis—an alternative test method for gasoline diluent and benzene, toluene, ethylbenzene and xylenes in used engine oils 983(2003)205

Determination of siloxane–water partition coefficients by capillary extraction–high-resolution gas chromatography. Study

of aromatic solvents 985(2003)39

Capillary extractors for “negligible depletion” sampling of benzene, toluene, ethylbenzene and xylenes by in-tube solid-phase microextraction 985(2003)85

In-tube solid-phase microextraction sampler for long-term storage 985(2003)93

Trace analysis of benzene, toluene, ethylbenzene and xylene isomers in environmental samples by low-pressure gas chromatography–ion trap mass spectrometry 985(2003)191

Competitive extraction of multi-component contaminants in water by Carboxen–polydimethylsiloxane fiber during solid-phase microextraction 988(2003)177

Simultaneous determination of methyl *tert*-butyl ether and its degradation products, other gasoline oxygenates and benzene, toluene, ethylbenzene and xylenes in Catalonian groundwater by purge-and-trap-gas chromatography–mass spectrometry 995(2003)171

On-site calibration method based on stepwise solid-phase microextraction 999(2003)43

Xylose

Co-eluent effect in partition chromatography. Rhamnose–xylose separation with strong and weak cation-exchangers in aqueous ethanol 982(2002)69

Y

Yessotoxins

Direct detection of yessotoxin and its analogues by liquid chromatography coupled with electrospray ion trap mass spectrometry 968(2002)61

Liquid chromatography with electrospray ion-trap mass spectrometry for the determination of yessotoxins in shellfish 976(2002)329

Yttrium

Isotachophoretic determination of stability constants of Ho and Y complexes with diethylenetriaminepentaacetic acid and 1,4,7,10-tetraazadodecane-*N,N',N'',N'''*-tetraacetic acid 990(2003)311

Z

Zearalenone

Liquid chromatographic determination of toxigenic secondary metabolites produced by *Fusarium* strains 955(2002)245

Determination of zearalenone from wheat and corn by pressurized liquid extraction and liquid chromatography–electrospray mass spectrometry 993(2003)39

Zein

Binding of environmental pollutants to the corn protein zein studied by high-performance liquid chromatography 987(2003)403

Zwiebelanes

Aroma analysis of fresh and preserved onions and leek by dual solid-phase microextraction–liquid extraction and gas chromatography–mass spectrometry 963(2002)89

Zwittergent

Determination of zwitterionic and cationic surfactants by high-performance liquid chromatography with chemiluminescent nitrogen detection 956(2002)237