

## Subject Index Vol. 985

### Accuracy

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

### Acetone

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

### Adduct ions

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

### Air analysis

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

Lichens as polycyclic aromatic hydrocarbon bioaccumulators used in atmospheric pollution studies 985(2003)185

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

### Alanine

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

### Albumin

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

### Alcohols

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

### Alkali metals

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

### Alkaline-earth metals

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

### Alkaloids

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

### Alkanenitriles

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

### Alkylphenols

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

### Amino acids

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

### Anesthetics

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

### (+)-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

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

### 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

**Automation**

Automated hollow fiber-protected dynamic liquid-phase microextraction of pesticides for gas chromatography–mass spectrometric analysis 985(2003)107

**Background electrolyte composition**

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

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

**Beer**

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

**Benzene**

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

**Benzoic acid**

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

**Biphenyl**

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

**Breakthrough**

Symmetrical (double-speed) static coating for high-resolution gas chromatography column preparation 985(2003)79

**Butoxycarbonylaminofluoropropyl 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 pharmaceutical analysis 985(2003)275

**Butter**

Comparison of solid-phase microextraction and purge-and-trap methods for the analysis of the volatile fraction of butter 985(2003)117

**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 pharmaceutical analysis 985(2003)275

**Butyrolactones**

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

**Byrsonima crassifolia**

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

**Calibration**

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

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

**Capillary columns**

Symmetrical (double-speed) static coating for high-resolution gas chromatography column preparation 985(2003)79

**Carbamates**

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

**Carbonyl compounds**

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

**Carboxylic acids**

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

**Carrier gas**

Carrier gas as a new factor influencing the selectivity of the gas–stationary liquid phase chromatographic system 985(2003)57

**Cationic surfactant**

Ion chromatography on reversed-phase materials coated with mixed cationic and nonionic surfactants 985(2003)359

**Cells**

Hyperlayer hollow-fiber flow field-flow fractionation of cells 985(2003)519

**Cigarette smoke**

Analysis of pyridines in mainstream cigarette smoke 985(2003)303

**Coated capillaries**

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

**Coating**

Symmetrical (double-speed) static coating for high-resolution gas chromatography column preparation 985(2003)79

**Comprehensive two-dimensional gas chromatography**

Comprehensive two-dimensional gas chromatography: metrics, potentials, limits 985(2003)29

**Computational chemistry**

Quantitative structure–retention relationships of phenolic compounds without Hammett's equations 985(2003)343

**Cryofocusing**

New high-performance cryofocalizer injector for in-tube solid-phase microextraction and headspace capillary gas chromatographic applications 985(2003)67

**Cyclodextrins**

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

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

**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

**Degree of racemisation**

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

**Derivatization, GC**

Determination of acidic drugs in sewage water by gas chromatography–mass spectrometry as *tert*-butyldimethylsilyl derivatives 985(2003)265

**Dialkylimidazolium**

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

**Dimeric products**

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

**Dimethylbutyldimethylsilylcyclodextrin**

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

**DNA**

Determination of 8-hydroxy-2'-deoxyguanosine in untreated urine by capillary electrophoresis with UV detection 985(2003)513

**Doping analysis**

Improvement in steroid screening for doping control with special emphasis on stanozolol 985(2003)375

**Drugs**

Semi-automated hollow-fibre membrane extraction, a novel enrichment technique for the determination of biologically active compounds in water samples 985(2003)99

**Dynamically coated column**

Ion chromatography on reversed-phase materials coated with mixed cationic and nonionic surfactants 985(2003)359

**Electrokinetic chromatography**

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

**Electromobility focusing**

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

**Eleostearic acid**

Separation of conjugated trienoic fatty acid isomers by capillary electrophoresis 985(2003)471

**Enantiomer separation**

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

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

**Endocrine disruptors**

Semi-automated hollow-fibre membrane extraction, a novel enrichment technique for the determination of biologically active compounds in water samples 985(2003)99

**Enflurane**

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

**Environmental analysis**

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

Lichens as polycyclic aromatic hydrocarbon bioaccumulators used in atmospheric pollution studies 985(2003)185

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

**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

**Ethanol**

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

**Ethylbenzene**

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

**External standards**

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

**Extraction methods**

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

Semi-automated hollow-fibre membrane extraction, a novel enrichment technique for the determination of biologically active compounds in water samples 985(2003)99

Automated hollow fiber-protected dynamic liquid-phase microextraction of pesticides for gas chromatography–mass spectrometric analysis 985(2003)107

Determination of triazines in soil by microwave-assisted extraction followed by solid-phase microextraction and gas chromatography–mass spectrometry 985(2003)167

**Fatty acid methyl esters**

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

**Fatty acids**

Separation of conjugated trienoic fatty acid isomers by capillary electrophoresis 985(2003)471

**Fertilisers**

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

**Field extraction methods**

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

**Field-flow fractionation**

Hyperlayer hollow-fiber flow field-flow fractionation of cells 985(2003)519

**Fly ash**

Optimization of a microwave-assisted extraction method for the analysis of polychlorinated biphenyls in ash samples 985(2003)137

**Food analysis**

Comparison of solid-phase microextraction and purge-and-trap methods for the analysis of the volatile fraction of butter 985(2003)117

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

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

Determination of nitrosamines in preserved sausages by solid-phase extraction–micellar electrokinetic chromatography 985(2003)503

**Fruits**

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

**Fuel**

Determination of total and polycyclic aromatic hydrocarbons in aviation jet fuel 985(2003)197

Preliminary characterization of anhydrous ethanol used in Brazil as automotive fuel 985(2003)367

**Gas chromatography**

Changes in the basic experimental parameters of capillary gas chromatography in the 20th century (Review) 985(2003)3

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

Carrier gas as a new factor influencing the selectivity of the gas-stationary liquid phase chromatographic system 985(2003)57

**Gas chromatography, comprehensive two-dimensional**

Image background removal in comprehensive two-dimensional gas chromatography (Review) 985(2003)47

**Geometrical isomers**

Separation of conjugated trienoic fatty acid isomers by capillary electrophoresis 985(2003)471

**Ginkgo biloba**

*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

**Hammett's equation**

Quantitative structure-retention relationships of phenolic compounds without Hammett's equations 985(2003)343

**Headspace analysis**

New high-performance cryofocalizer injector for in-tube solid-phase microextraction and headspace capillary gas chromatographic applications 985(2003)67

Comparison of solid-phase microextraction and purge-and-trap methods for the analysis of the volatile fraction of butter 985(2003)117

Direct quantitation of volatile organic compounds in packaging materials by headspace solid-phase microextraction-gas chromatography-mass spectrometry 985(2003)247

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

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

**Headspace sorptive extraction**

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

**Heat capacity**

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

**Hollow fibers**

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

Hyperlayer hollow-fiber flow field-flow fractionation of cells 985(2003)519

**Hollow fibre membranes**

Semi-automated hollow-fibre membrane extraction, a novel enrichment technique for the determination of biologically active compounds in water samples 985(2003)99

**Hormones**

Evaluation of chromatographic versus electrophoretic behaviour of a series of therapeutical peptide hormones 985(2003)411

**Hydrocarbons, aromatic**

Determination of total and polycyclic aromatic hydrocarbons in aviation jet fuel 985(2003)197

**Hydroxydeoxyguanosine**

Determination of 8-hydroxy-2'-deoxyguanosine in untreated urine by capillary electrophoresis with UV detection 985(2003)513

**Image background removal**

Image background removal in comprehensive two-dimensional gas chromatography (Review) 985(2003)47

**Injection methods**

New high-performance cryofocalizer injector for in-tube solid-phase microextraction and headspace capillary gas chromatographic applications 985(2003)67

**Instrumentation**

Needle-type concentrator and its application to the determination of pollutants 985(2003)63

Symmetrical (double-speed) static coating for high-resolution gas chromatography column preparation 985(2003)79

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

**Internal standards**

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

**Ionic liquids**

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

**Ionization constants**

Evaluation of chromatographic versus electrophoretic behaviour of a series of therapeutical peptide hormones 985(2003)411

**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

**Lactones**

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

**Limonene**

Determination of the disproportionation products of limonene used for the catalytic hydrogenation of castor oil 985(2003)313

**Liquid-phase microextraction**

Automated hollow fiber-protected dynamic liquid-phase microextraction of pesticides for gas chromatography–mass spectrometric analysis 985(2003)107

**Malt whisky**

Analysis of volatiles of malt whisky by solid-phase microextraction and stir bar sorptive extraction 985(2003)221

**Marine sediments**

Determination of butyltin compounds in surface sediments from the São Paulo State coast (Brazil) by gas chromatography–pulsed flame photometric detection 985(2003)205

**Mass spectrometry**

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

**Meat**

Determination of nitrosamines in preserved sausages by solid-phase extraction–micellar electrokinetic chromatography 985(2003)503

**Metal cations**

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

**Methanol**

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

**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

**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

**Microdialysis**

*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

**Microwave assisted extraction**

Optimization of a microwave-assisted extraction method for the analysis of polychlorinated biphenyls in ash samples 985(2003)137

**Migration prediction**

Evaluation of chromatographic versus electrophoretic behaviour of a series of therapeutical peptide hormones 985(2003)411

**Mixed micelles**

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

**Molar excess volumes**

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

**Molecular modelling**

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

**Monolithic columns**

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

**Mycotoxins**

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

**Myoglobin**

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

**Naphthalenes**

Carrier gas as a new factor influencing the selectivity of the gas–stationary liquid phase chromatographic system 985(2003)57

**Negligible depletion sampling**

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

**Nitroalkanes**

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

**Nitrosamines**

Determination of nitrosamines in preserved sausages by solid-phase extraction–micellar electrokinetic chromatography 985(2003)503

**Nonenal**

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

**Nonionic surfactant**

Ion chromatography on reversed-phase materials coated with mixed cationic and nonionic surfactants 985(2003)359

**Non-steroidal anti-inflammatory drugs**

Determination of acidic drugs in sewage water by gas chromatography–mass spectrometry as *tert*.-butyldimethylsilyl derivatives 985(2003)265

**Octadecatrienoic acids**

Separation of conjugated trienoic fatty acid isomers by capillary electrophoresis 985(2003)471

**Octanol**

Carrier gas as a new factor influencing the selectivity of the gas–stationary liquid phase chromatographic system 985(2003)57

**Oils**

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

Determination of the disproportionation products of limonene used for the catalytic hydrogenation of castor oil 985(2003)313

**Olive oil**

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

Liquid–liquid and solid-phase extractions of phenols from virgin olive oil and their separation by chromatographic and electrophoretic methods 985(2003)425

**Opiates**

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

**Optimization**

Comprehensive two-dimensional gas chromatography: metrics, potentials, limits 985(2003)29

Evaluation of chromatographic versus electrophoretic behaviour of a series of therapeutical peptide hormones 985(2003)411

**Organochlorine compounds**

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

**Organophosphorus compounds**

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

**Organotin compounds**

Determination of butyltin compounds in surface sediments from the São Paulo State coast (Brazil) by gas chromatography–pulsed flame photometric detection 985(2003)205

 **$\gamma$ -Oryzanol**

Coupled liquid chromatography–gas chromatography for the rapid analysis of  $\gamma$ -oryzanol in rice lipids 985(2003)403

**Packaging materials**

Direct quantitation of volatile organic compounds in packaging materials by headspace solid-phase microextraction–gas chromatography–mass spectrometry 985(2003)247

**Partition coefficients**

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

***Passiflora* spp**

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

***Penicillium roqueforti***

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

**Peptides**

Evaluation of chromatographic versus electrophoretic behaviour of a series of therapeutical peptide hormones 985(2003)411

**Pesticides**

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

#### Pharmaceutical analysis

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

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

#### Phenolic compounds

Quantitative structure–retention relationships of phenolic compounds without Hammett's equations 985(2003)343

#### Phenols

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

#### Photodegradation

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

#### Plant materials

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

#### Polychlorinated biphenyls

Optimization of a microwave-assisted extraction method for the analysis of polychlorinated biphenyls in ash samples 985(2003)137

#### Polycyclic aromatic hydrocarbons

Determination of total and polycyclic aromatic hydrocarbons in aviation jet fuel 985(2003)197

#### Poly(ethylene glycol)

Characterization of polyethylene glycols and polypropylene glycols by capillary zone electrophoresis and micellar electrokinetic chromatography 985(2003)479

#### Polymers

Characterization of polyethylene glycols and polypropylene glycols by capillary zone electrophoresis and micellar electrokinetic chromatography 985(2003)479

#### Polynuclear aromatic hydrocarbons

Lichens as polycyclic aromatic hydrocarbon bioaccumulators used in atmospheric pollution studies 985(2003)185

#### Poly(propylene glycol)

Characterization of polyethylene glycols and polypropylene glycols by capillary zone electrophoresis and micellar electrokinetic chromatography 985(2003)479

#### Positional isomers

Separation of conjugated trienoic fatty acid isomers by capillary electrophoresis 985(2003)471

#### Preparative chromatography

Preliminary characterization of anhydrous ethanol used in Brazil as automotive fuel 985(2003)367

#### Proteins

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

#### Pseudo-stationary phases

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

#### Purge-and-trap

Comparison of solid-phase microextraction and purge-and-trap methods for the analysis of the volatile fraction of butter 985(2003)117



**Pyrethroids**

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

**Pyridines**

Analysis of pyridines in mainstream cigarette smoke 985(2003)303

**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

**Quantitative structure–retention relationships**

Quantitative structure–retention relationships of phenolic compounds without Hammett's equations 985(2003)343

**Quercus ilex**

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

**Relaxed eddy accumulation**

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

**Retention indices**

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

**Retention prediction**

Evaluation of chromatographic versus electrophoretic behaviour of a series of therapeutical peptide hormones 985(2003)411

**Review**

Changes in the basic experimental parameters of capillary gas chromatography in the 20th century (Review) 985(2003)3

**Rice**

Coupled liquid chromatography–gas chromatography for the rapid analysis of  $\gamma$ -oryzanol in rice lipids 985(2003)403

**Room-temperature ionic liquids**

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

**Sample handling**

Needle-type concentrator and its application to the determination of pollutants 985(2003)63

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

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

**Sample preparation**

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

**Saturation**

Comprehensive two-dimensional gas chromatography: metrics, potentials, limits 985(2003)29

**Scientometrics**

Changes in the basic experimental parameters of capillary gas chromatography in the 20th century (Review) 985(2003)3

**Selectivity**

Carrier gas as a new factor influencing the selectivity of the gas–stationary liquid phase chromatographic system 985(2003)57

**Separation capacity**

Comprehensive two-dimensional gas chromatography: metrics, potentials, limits 985(2003)29

**Separation power**

Comprehensive two-dimensional gas chromatography: metrics, potentials, limits 985(2003)29

**Siloxane–water partition coefficients**

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

**Soil**

Determination of triazines in soil by microwave-assisted extraction followed by solid-phase microextraction and gas chromatography–mass spectrometry 985(2003)167

**Solid-phase microextraction**

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

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

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

Analysis of volatiles of malt whisky by solid-phase microextraction and stir bar sorptive extraction 985(2003)221

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

**Solid-phase microextraction methods**

Comparison of solid-phase microextraction and purge-and-trap methods for the analysis of the volatile fraction of butter 985(2003)117

**Stanozolol**

Improvement in steroid screening for doping control with special emphasis on stanozolol 985(2003)375

**Stationary phase, GC**

Carrier gas as a new factor influencing the selectivity of the gas-stationary liquid phase chromatographic system 985(2003)57

**Stationary phase, LC**

Ion chromatography on reversed-phase materials coated with mixed cationic and nonionic surfactants 985(2003)359

**Steroids**

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

**Sterols**

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  $\gamma$ -oryzanol in rice lipids 985(2003)403

**Stir bar sorptive extraction**

Analysis of volatiles of malt whisky by solid-phase microextraction and stir bar sorptive extraction 985(2003)221

**Supercritical fluid extraction**

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

**Surfactants**

Ion chromatography on reversed-phase materials coated with mixed cationic and nonionic surfactants 985(2003)359

**Sweeping**

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

**Temperature effects**

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

**Thermodynamic parameters**

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

**Toluene**

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

**Triazines**

Determination of triazines in soil by microwave-assisted extraction followed by solid-phase microextraction and gas chromatography-mass spectrometry 985(2003)167

**Volatile organic compounds**

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

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

**Volatiles**

Analysis of volatiles of malt whisky by solid-phase microextraction and stir bar sorptive extraction 985(2003)221

**Volume contraction**

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

**Warfarin**

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

**Water**

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

**Water analysis**

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

Semi-automated hollow-fibre membrane extraction, a novel enrichment technique for the determination of biologically active compounds in water samples 985(2003)99

Determination of acidic drugs in sewage water by gas chromatography–mass spectrometry as *tert.*-butyldimethylsilyl derivatives 985(2003)265

**Wine**

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

**Xylenes**

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