

# Journal of Chromatography A, 968 (2002) 271-276

# JOURNAL OF CHROMATOGRAPHY A

www.elsevier.com/locate/chroma

# Subject Index Vol. 968

#### Adsorption

Hydrophobic interaction ligand selection and scale-up of an expanded bed separation of an intracellular enzyme from *Saccharomyces cerevisiae* 968(2002)121

### Air analysis

Application of a pulse-discharge helium detector to the determination of neon in air and water 968(2002)263

### Alkaloids

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

#### Arginine

Structural requirements for conserved Arg<sup>52</sup> residue for interaction of the human immunodeficiency virus type 1 transactivation responsive element with trans-activator of transcription protein (49–57). Capillary electrophoresis mobility shift assay 968(2002)211

# Art analysis

Ion chromatography characterization of polysaccharides in ancient wall paintings 968(2002)79

#### Beeswax

Mass spectrometric methods prove the use of beeswax and ruminant fat in late Roman cooking pots 968(2002)151

# Capillary electrophoresis mobility shift assay

Structural requirements for conserved Arg<sup>52</sup> residue for interaction of the human immunodeficiency virus type 1 transactivation responsive element with trans-activator of transcription protein (49–57). Capillary electrophoresis mobility shift assay 968(2002)211

# Carbohydrates

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

# Cationic drugs

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17

### Chiral stationary phases, LC

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

### Cold temperature trapping

Development of a two-dimensional liquid chromatography system with trapping and sample enrichment capabilities 968(2002)41

### Crataegus laevigata

High-performance liquid chromatographic determination of oligomeric procyanidins from dimers up to the hexamer in hawthorn 968(2002)53

# Cryogenic modulation

Retention time reproducibility in comprehensive twodimensional gas chromatography using cryogenic modulation. An intralaboratory study 968(2002)161

# **β-Cyclodextrin**

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

# **Detection**, GC

Application of a pulse-discharge helium detector to the determination of neon in air and water 968(2002)263

# 2-Dodecvlcvclobutanone

Supercritical fluid extraction for the detection of 2-dodecylcyclobutanone in low dose irradiated plant foods 968(2002)251

# **Enantiomer separation**

Enantiomer separation of flavour and fragrance compounds by liquid chromatography using novel urea-covalent bonded methylated  $\beta\text{-cyclodextrins}$  on silica 968(2002)31

### Enhanced 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

0021-9673/02/\$ - see front matter © 2002 Elsevier Science B.V. All right reserved

PII: S0021-9673(02)01066-X

#### **Environmental analysis**

Determination of organochlorine pesticides in seawater using liquid-phase hollow fibre membrane microextraction and gas chromatography-mass spectrometry 968(2002)191

#### Enzymes

Hydrophobic interaction ligand selection and scale-up of an expanded bed separation of an intracellular enzyme from *Saccharomyces cerevisiae* 968(2002)121

# Erythropoietin

Improved capillary isoelectric focusing method for recombinant erythropoietin analysis 968(2002)221

# Escherichia coli

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

# Eschscholtzia californica

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

# **Ethoxylates**

Determination of nonylphenol polyethoxylates in household detergents by high-performance liquid chromatography 968(2002)143

### Expanded bed adsorption

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

# Expanded bed chromatography

Hydrophobic interaction ligand selection and scale-up of an expanded bed separation of an intracellular enzyme from *Saccharomyces cerevisiae* 968(2002)121

# Extraction methods

Selective enrichment of sulfides, thiols and methylthiophosphates from water samples on metal-loaded cation-exchange materials for gas chromatographic analysis 968(2002)171

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

Application of pressurized liquid extraction technology to pharmaceutical solid dosage form analysis 968(2002)257

#### **Flavanones**

Enantiomer separation of flavour and fragrance compounds by liquid chromatography using novel urea-covalent bonded methylated  $\beta$ -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

#### Food analysis

Simultaneous quantification of A-trichothecene mycotoxins in grains using liquid chromatography-atmospheric pressure chemical ionisation mass spectrometry 968(2002)129

Application of matrix solid-phase dispersion to the determination of a new generation of fungicides in fruits and vegetables 968(2002)201

Optimizing separation conditions for riboflavin, flavin mononucleotide and flavin adenine dinucleotide in capillary zone electrophoresis with laser-induced fluorescence detection 968(2002)229

Supercritical fluid extraction for the detection of 2-dodecylcyclobutanone in low dose irradiated plant foods 968(2002)251

#### **Fruits**

Application of matrix solid-phase dispersion to the determination of a new generation of fungicides in fruits and vegetables 968(2002)201

# Gas chromatography, comprehensive two-dimensional

Retention time reproducibility in comprehensive twodimensional gas chromatography using cryogenic modulation. An intralaboratory study 968(2002)161

# Glyceric acid

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

#### **Glycoproteins**

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

#### Grain

Simultaneous quantification of A-trichothecene mycotoxins in grains using liquid chromatography-atmospheric pressure chemical ionisation mass spectrometry 968(2002)129

# Grapes

In-line pressurized-fluid extraction-solid-phase extraction for determining phenolic compounds in grapes 968(2002)1

# Guluronic acids

Analysis of oligoguluronic acids with NMR, electrospray ionization—mass spectrometry and high-performance anion-exchange chromatography 968(2002)71

#### Hawthorn

High-performance liquid chromatographic determination of oligomeric procyanidins from dimers up to the hexamer in hawthorn 968(2002)53

# **Heart-cutting**

Development of a two-dimensional liquid chromatography system with trapping and sample enrichment capabilities 968(2002)41

# Hollow-fiber membranes

Determination of organochlorine pesticides in seawater using liquid-phase hollow fibre membrane microextraction and gas chromatography-mass spectrometry 968(2002)191

# Hydrophobic interaction chromatography

Hydrophobic interaction ligand selection and scale-up of an expanded bed separation of an intracellular enzyme from Saccharomyces cerevisiae 968(2002)121

# Hydrophobic organic compounds

Estimation of soil organic partition coefficients: from retention factors measured by soil column chromatography with water as eluent 968(2002)7

# Immobilized metal affinity chromatography

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

# Ionones

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

# Isoelectric focusing

Improved capillary isoelectric focusing method for recombinant erythropoietin analysis 968(2002)221

### Lewis acid-base interactions

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17

### Liquid-phase microextraction

Determination of organochlorine pesticides in seawater using liquid-phase hollow fibre membrane microextraction and gas chromatography-mass spectrometry 968(2002)191

# Matrix solid-phase dispersion

Application of matrix solid-phase dispersion to the determination of a new generation of fungicides in fruits and vegetables 968(2002)201

# Mixed-mode retention

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17

### Mobile phase composition

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17

### Montelukast sodium

Application of pressurized liquid extraction technology to pharmaceutical solid dosage form analysis 968(2002)257

### Mytilus galloprovincialis

Direct detection of yessotoxin and its analogues by liquid chromatography coupled with electrospray ion trap mass spectrometry 968(2002)61

#### Mycotoxins

Simultaneous quantification of A-trichothecene mycotoxins in grains using liquid chromatography-atmospheric pressure chemical ionisation mass spectrometry 968(2002)129

# Neon

Application of a pulse-discharge helium detector to the determination of neon in air and water 968(2002)263

# Nonaqueous capillary electrophoresis

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

# Nonylphenol ethoxylates

Determination of nonylphenol polyethoxylates in household detergents by high-performance liquid chromatography 968(2002)143

#### Oligoguluronic acids

Analysis of oligoguluronic acids with NMR, electrospray ionization—mass spectrometry and high-performance anion-exchange chromatography 968(2002)71

#### Oligosaccharides

Simultaneous microanalysis of *N*-linked oligosaccharides in a glycoprotein using microbore graphitized carbon column liquid chromatography—mass spectrometry 968(2002)89

### Organic acids

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

# Organochlorine compounds

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

# Organophosphorus compounds

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

# Organosulfur compounds

Selective enrichment of sulfides, thiols and methylthiophosphates from water samples on metal-loaded cation-exchange materials for gas chromatographic analysis 968(2002)171

# **Paints**

Ion chromatography characterization of polysaccharides in ancient wall paintings 968(2002)79

# Partition coefficients

Estimation of soil organic partition coefficients: from retention factors measured by soil column chromatography with water as eluent 968(2002)7

### Peptide-RNA interactions

Structural requirements for conserved Arg<sup>52</sup> residue for interaction of the human immunodeficiency virus type 1 transactivation responsive element with trans-activator of transcription protein (49–57). Capillary electrophoresis mobility shift assay 968(2002)211

# **Peptides**

Structural requirements for conserved Arg <sup>52</sup> residue for interaction of the human immunodeficiency virus type 1 transactivation responsive element with trans-activator of transcription protein (49–57). Capillary electrophoresis mobility shift assay 968(2002)211

### Pesticides

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

# Pharmaceutical analysis

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

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

Application of pressurized liquid extraction technology to pharmaceutical solid dosage form analysis 968(2002)257

# Phenolic compounds

In-line pressurized-fluid extraction–solid-phase extraction for determining phenolic compounds in grapes 968(2002)1

### Polybutadiene

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17

#### **Polyphenols**

High-performance liquid chromatographic determination of oligomeric procyanidins from dimers up to the hexamer in hawthorn 968(2002)53

### **Polysaccharides**

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

# Polystyrenes, low-molecular-mass

Development of a two-dimensional liquid chromatography system with trapping and sample enrichment capabilities 968(2002)41

# Porous graphitized carbon

Simultaneous microanalysis of *N*-linked oligosaccharides in a glycoprotein using microbore graphitized carbon column liquid chromatography—mass spectrometry 968(2002)89

# Preparative chromatography

Hydrophobic interaction ligand selection and scale-up of an expanded bed separation of an intracellular enzyme from *Saccharomyces cerevisiae* 968(2002)121

# Pressurized fluid extraction

In-line pressurized-fluid extraction-solid-phase extraction for determining phenolic compounds in grapes 968(2002)1

### Pressurized liquid extraction

Application of pressurized liquid extraction technology to pharmaceutical solid dosage form analysis 968(2002)257

### **Procyanidins**

High-performance liquid chromatographic determination of oligomeric procyanidins from dimers up to the hexamer in hawthorn 968(2002)53

### **Proteins**

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 Arg <sup>52</sup> residue for interaction of the human immunodeficiency virus type 1 transactivation 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

# Pulse-discharge helium detection

Application of a pulse-discharge helium detector to the determination of neon in air and water 968(2002)263

### **Pyrethroids**

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

# Reproducibility

Retention time reproducibility in comprehensive twodimensional gas chromatography using cryogenic modulation. An intralaboratory study 968(2002)161

# Retention factors

Estimation of soil organic partition coefficients: from retention factors measured by soil column chromatography with water as eluent 968(2002)7

# Retention time

Retention time reproducibility in comprehensive twodimensional gas chromatography using cryogenic modulation. An intralaboratory study 968(2002)161

# Riboflavin

Optimizing separation conditions for riboflavin, flavin mononucleotide and flavin adenine dinucleotide in capillary zone electrophoresis with laser-induced fluorescence detection 968(2002)229

# RNA-peptide interactions

Structural requirements for conserved Arg<sup>52</sup> residue for interaction of the human immunodeficiency virus type 1 transactivation responsive element with trans-activator of transcription protein (49–57). Capillary electrophoresis mobility shift assay 968(2002)211

#### Ruminant fat

Mass spectrometric methods prove the use of beeswax and ruminant fat in late Roman cooking pots 968(2002)151

### Saccharomyces cerevisiae

Hydrophobic interaction ligand selection and scale-up of an expanded bed separation of an intracellular enzyme from Saccharomyces cerevisiae 968(2002)121

#### Shellfish poisoning

Direct detection of yessotoxin and its analogues by liquid chromatography coupled with electrospray ion trap mass spectrometry 968(2002)61

### Silanophilic interactions

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17

# Soil column chromatography

Estimation of soil organic partition coefficients: from retention factors measured by soil column chromatography with water as eluent 968(2002)7

# Solid-phase extraction

In-line pressurized-fluid extraction–solid-phase extraction for determining phenolic compounds in grapes 968(2002)1

# Solid-phase microextraction

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

# Stationary phases, LC

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17

### Supercritical fluid extraction

Supercritical fluid extraction for the detection of 2-dodecylcyclobutanone in low dose irradiated plant foods 968(2002)251

# Surfactants

Determination of nonylphenol polyethoxylates in household detergents by high-performance liquid chromatography 968(2002)143

#### Tannins

High-performance liquid chromatographic determination of oligomeric procyanidins from dimers up to the hexamer in hawthorn 968(2002)53

#### **Toxins**

Direct detection of yessotoxin and its analogues by liquid chromatography coupled with electrospray ion trap mass spectrometry 968(2002)61

### Trans-activation responsive element

Structural requirements for conserved Arg<sup>52</sup> residue for interaction of the human immunodeficiency virus type 1 transactivation responsive element with trans-activator of transcription protein (49–57). Capillary electrophoresis mobility shift assay 968(2002)211

### **Triazines**

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

#### **Trichothecenes**

Simultaneous quantification of A-trichothecene mycotoxins in grains using liquid chromatography-atmospheric pressure chemical ionisation mass spectrometry 968(2002)129

# Two-dimensional liquid chromatography

Development of a two-dimensional liquid chromatography system with trapping and sample enrichment capabilities 968(2002)41

# Vegetables

Application of matrix solid-phase dispersion to the determination of a new generation of fungicides in fruits and vegetables 968(2002)201

# Vitamins

Optimizing separation conditions for riboflavin, flavin mononucleotide and flavin adenine dinucleotide in capillary zone electrophoresis with laser-induced fluorescence detection 968(2002)229

#### Water analysis

Selective enrichment of sulfides, thiols and methylthiophosphates from water samples on metal-loaded cation-exchange materials for gas chromatographic analysis 968(2002)171

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 a pulse-discharge helium detector to the determination of neon in air and water 968(2002)263

### Wine

Optimizing separation conditions for riboflavin, flavin mononucleotide and flavin adenine dinucleotide in capillary zone electrophoresis with laser-induced fluorescence detection 968(2002)229

#### Yessotoxins

Direct detection of yessotoxin and its analogues by liquid chromatography coupled with electrospray ion trap mass spectrometry 968(2002)61

#### Zirconia

Mixed-mode reversed-phase and ion-exchange separations of cationic analytes on polybutadiene-coated zirconia 968(2002)17