

Subject index Volume 247

Alkali metal ion

Conformational effects on cationization of poly(ethylene glycol) by alkali metal ions in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry, 85

Amino acids

A selected ion flow tube study of the reactions of various nitrogen containing ions with formic acid, acetic acid, and methyl formate, 55

Anti-doping

Structure and mechanism of formation of an important ion in doping control, 48

Atmospheric analysis

A hollow cathode proton transfer reaction time of flight mass spectrometer, 72

Binary salts

Semi-quantitative characterisation of binary salt mixtures with static secondary ion mass spectrometry (S-SIMS), 28

By slow H_2^+ ions

Single electron capture in slow collisions of H_2^+ ions with H_2 , O_2 and N_2 diatomic molecules, 81

CID/MS

Application of ESI/MS, CID/MS and tandem MS/MS to the fragmentation study of eriodictyol 7-*O*-glucosyl-(1→2)-glucoside and luteolin 7-*O*-glucosyl-(1→2)-glucoside, 93

Combustion chemistry

Photoionization cross sections for reaction intermediates in hydrocarbon combustion, 18

Confinement

Impulsional mode operation for a Paul ion trap, 61

Coral

High precision Faraday collector MC-ICPMS thorium isotope ratio determination, 10

Core-level photoexcitation

Site-specific fragmentation caused by core-level photoexcitation: Comparison between Si:1s and 2p photoexcitations in $F_3SiCH_2CH_2Si(CH_3)_3$ vapor, 101

Dithiocarbamic acid ester

Characteristic fragmentation behaviors of novel dithiocarbamic acid esters studied by electrospray ionization tandem mass spectrometry, 67

Effective potential

Limitations of the effective potential for the evaluation of the ion energy in the RF-driven quadrupole field, 40

Electron capture

Single electron capture in slow collisions of H_2^+ ions with H_2 , O_2 and N_2 diatomic molecules, 81

ESI/MS

Application of ESI/MS, CID/MS and tandem MS/MS to the fragmentation study of eriodictyol 7-*O*-glucosyl-(1→2)-glucoside and luteolin 7-*O*-glucosyl-(1→2)-glucoside, 93

Faraday

High precision Faraday collector MC-ICPMS thorium isotope ratio determination, 10

Flavonoids

Application of ESI/MS, CID/MS and tandem MS/MS to the fragmentation study of eriodictyol 7-*O*-glucosyl-(1→2)-glucoside and luteolin 7-*O*-glucosyl-(1→2)-glucoside, 93

Fractional resolution

Impulsional mode operation for a Paul ion trap, 61

Fragmentation pathway

Characteristic fragmentation behaviors of novel dithiocarbamic acid esters studied by electrospray ionization tandem mass spectrometry, 67

Glucosides

Application of ESI/MS, CID/MS and tandem MS/MS to the fragmentation study of eriodictyol 7-*O*-glucosyl-(1→2)-glucoside and luteolin 7-*O*-glucosyl-(1→2)-glucoside, 93

Hydrocarbons

Photoionization cross sections for reaction intermediates in hydrocarbon combustion, 18

Impulsional mode

Impulsional mode operation for a Paul ion trap, 61

Interstellar medium

A selected ion flow tube study of the reactions of various nitrogen containing ions with formic acid, acetic acid, and methyl formate, 55

Ion structure

Structure and mechanism of formation of an important ion in doping control, 48

Ion/molecule reactions

A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^{++} with some oxygenated biogenic volatile organic compounds, 1

Ion–molecule reaction

A selected ion flow tube study of the reactions of various nitrogen containing ions with formic acid, acetic acid, and methyl formate, 55

Ions

Impulsional mode operation for a Paul ion trap, 61

Isotope reference materials

Re-certification of a series of uranium isotope reference materials: IRMM-183, IRMM-184, IRMM-185, IRMM-186 and IRMM-187, 37

Limitations of the adiabatic approximation

Limitations of the effective potential for the evaluation of the ion energy in the RF-driven quadrupole field, 40

m/z 143

Structure and mechanism of formation of an important ion in doping control, 48

MALDI-TOFMS

Conformational effects on cationization of poly(ethylene glycol) by alkali metal ions in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry, 85

Mass spectrometry

High precision Faraday collector MC-ICPMS thorium isotope ratio determination, 10

Characteristic fragmentation behaviors of novel dithiocarbamic acid esters studied by electrospray ionization tandem mass spectrometry, 67

MC-ICPMS

High precision Faraday collector MC-ICPMS thorium isotope ratio determination, 10

Mixtures

Semi-quantitative characterisation of binary salt mixtures with static secondary ion mass spectrometry (S-SIMS), 28

Molecular dynamics

Conformational effects on cationization of poly(ethylene glycol) by alkali metal ions in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry, 85

MS/MS

Application of ESI/MS, CID/MS and tandem MS/MS to the fragmentation study of eriodictyol 7-*O*-glucosyl-(1→2)-glucoside and luteolin 7-*O*-glucosyl-(1→2)-glucoside, 93

Nuclear safeguards

Re-certification of a series of uranium isotope reference materials: IRMM-183, IRMM-184, IRMM-185, IRMM-186 and IRMM-187, 37

Organosilicon molecule

Site-specific fragmentation caused by core-level photoexcitation: Comparison between Si:1s and 2p photoexcitations in $\text{F}_3\text{SiCH}_2\text{CH}_2\text{Si}(\text{CH}_3)_3$ vapor, 101

Oxygenated biogenic volatile organic compounds

A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^{*+} with some oxygenated biogenic volatile organic compounds, 1

Paul ion trap

Impulsional mode operation for a Paul ion trap, 61

Photoionization cross sections

Photoionization cross sections for reaction intermediates in hydrocarbon combustion, 18

Photoionization mass spectrometry (PIMS)

Photoionization cross sections for reaction intermediates in hydrocarbon combustion, 18

Polyatomic

Semi-quantitative characterisation of binary salt mixtures with static secondary ion mass spectrometry (S-SIMS), 28

Poly(ethylene glycol)

Conformational effects on cationization of poly(ethylene glycol) by alkali metal ions in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry, 85

Proton transfer reaction mass spectrometry

A hollow cathode proton transfer reaction time of flight mass spectrometer, 72

Quantification

Semi-quantitative characterisation of binary salt mixtures with static secondary ion mass spectrometry (S-SIMS), 28

Rate coefficient

A selected ion flow tube study of the reactions of various nitrogen containing ions with formic acid, acetic acid, and methyl formate, 55

Rate constants

A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^{*+} with some oxygenated biogenic volatile organic compounds, 1

RF-driven quadrupole fields

Limitations of the effective potential for the evaluation of the ion energy in the RF-driven quadrupole field, 40

Sample preparation

Semi-quantitative characterisation of binary salt mixtures with static secondary ion mass spectrometry (S-SIMS), 28

SIFT

A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^{*+} with some oxygenated biogenic volatile organic compounds, 1

A selected ion flow tube study of the reactions of various nitrogen containing ions with formic acid, acetic acid, and methyl formate, 55

Site-specific fragmentation

Site-specific fragmentation caused by core-level photoexcitation: Comparison between Si:1s and 2p photoexcitations in $\text{F}_3\text{SiCH}_2\text{CH}_2\text{Si}(\text{CH}_3)_3$ vapor, 101

Static-SIMS

Semi-quantitative characterisation of binary salt mixtures with static secondary ion mass spectrometry (S-SIMS), 28

Steroids

Structure and mechanism of formation of an important ion in doping control, 48

Synchrotron radiation

Site-specific fragmentation caused by core-level photoexcitation: Comparison between Si:1s and 2p photoexcitations in $\text{F}_3\text{SiCH}_2\text{CH}_2\text{Si}(\text{CH}_3)_3$ vapor, 101

Th isotopes

High precision Faraday collector MC-ICPMS thorium isotope ratio determination, 10

Thermal ionization mass spectrometry

Re-certification of a series of uranium isotope reference materials: IRMM-183, IRMM-184, IRMM-185, IRMM-186 and IRMM-187, 37

Thorium

High precision Faraday collector MC-ICPMS thorium isotope ratio determination, 10

Time of flight mass spectrometry

A hollow cathode proton transfer reaction time of flight mass spectrometer, 72

Uniform oligomer

Conformational effects on cationization of poly(ethylene glycol) by alkali metal ions in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry, 85

Uranium

Re-certification of a series of uranium isotope reference materials: IRMM-183, IRMM-184, IRMM-185, IRMM-186 and IRMM-187, 37

U-series dating

High precision Faraday collector MC-ICPMS thorium isotope ratio determination, 10