

Subject index Volume 234

Acid–base reaction

On the double benzylic hydrogen migration in the molecular ion of *N*-(5-phenylvaleryl)-1-azacyclopentane-2-thione, 171

Alcohols

Gas-phase reactions of lanthanide cations with alcohols, 51

Amino acid clusters

A review of gas-phase H/D exchange experiments: the protonated arginine dimer and bradykinin nonapeptide systems, 63

Average nucleotide

Utility of accurate monoisotopic mass measurements to confidently identify lambda exonuclease generated single-stranded amplicons containing 7-deaza analogs by electrospray ionization FT-ICR mass spectrometry, 79

BIRD

Activation of protonated peptides and molecular ions of small molecules using heated filaments in Fourier-transform ion cyclotron resonance mass spectrometry, 1

Bottom-up

Effect of ionization mode in the analysis of proteolytic protein digests, 185

Branched peptides

Electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry of cyclodepsipeptides, branched peptides, and ϵ -peptides, 23

Cation

Interference from multiple cations in MALDI–MS spectra of copolymers, 153

Cerebrospinal fluid

Glycoproteomics of cerebrospinal fluid in neurodegenerative disease, 145

Chiral analyses

Chiral analyses of peptides by ion/molecule reactions, 71

CID

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

Conformers

A review of gas-phase H/D exchange experiments: the protonated arginine dimer and bradykinin nonapeptide systems, 63

Copolymers

Interference from multiple cations in MALDI–MS spectra of copolymers, 153

Cross-linking

Chemical cross-linking of the urease complex from *Helicobacter pylori* and analysis by Fourier transform ion cyclotron resonance mass spectrometry and molecular modeling, 137

Cu(II) complexes

Comparing the gas-phase fragmentation reactions of protonated and radical cations of the tripeptides GXR, 101

Cyclodepsipeptides

Electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry of cyclodepsipeptides, branched peptides, and ϵ -peptides, 23

7-Deaza

Utility of accurate monoisotopic mass measurements to confidently identify lambda exonuclease generated single-stranded amplicons containing 7-deaza analogs by electrospray ionization FT-ICR mass spectrometry, 79

Deuterium labeling

On the double benzylic hydrogen migration in the molecular ion of *N*-(5-phenylvaleryl)-1-azacyclopentane-2-thione, 171

Dissociation kinetics

Activation of protonated peptides and molecular ions of small molecules using heated filaments in Fourier-transform ion cyclotron resonance mass spectrometry, 1

Disulfide bond

Electron capture dissociation of the disulfide bond—a quantum chemical model study, 45

DNA

Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123

Double hydrogen rearrangement

On the double benzylic hydrogen migration in the molecular ion of *N*-(5-phenylvaleryl)-1-azacyclopentane-2-thione, 171

Dual-electrospray source

Utility of accurate monoisotopic mass measurements to confidently identify lambda exonuclease generated single-stranded amplicons containing 7-deaza analogs by electrospray ionization FT-ICR mass spectrometry, 79

Electron capture dissociation (ECD)

Structural studies on protein O-fucosylation by electron capture dissociation, 11

Electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry of cyclodepsipeptides, branched peptides, and ϵ -peptides, 23

Electron capture dissociation of the disulfide bond—a quantum chemical model study, 45

Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123

Considerations for electron capture dissociation efficiency in FTICR mass spectrometry, 131

Electron captured dissociation (ECD)

Comparison of peptide mass mapping and electron capture dissociation as assays for histone posttranslational modifications, 213

Electron emission

The influence of spontaneous m/z -changes on the ion motion in an ion cyclotron resonance trap, 161

Electrospray

Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123

Electrospray ionization

Comparing the gas-phase fragmentation reactions of protonated and radical cations of the tripeptides GXR, 101

Endonuclease

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

ESI

- A review of gas-phase H/D exchange experiments: the protonated arginine dimer and bradykinin nonapeptide systems, 63
- Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123

Filaments dissociation

- Activation of protonated peptides and molecular ions of small molecules using heated filaments in Fourier-transform ion cyclotron resonance mass spectrometry, 1

Flow tube

- A review of gas-phase H/D exchange experiments: the protonated arginine dimer and bradykinin nonapeptide systems, 63

Fourier transform

- Glycoproteomics of cerebrospinal fluid in neurodegenerative disease, 145

Fourier transform ion cyclotron resonance

- Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123

Fragmentation energetics

- Fragmentation energetics for angiotensin II and its analogs from time- and energy-resolved surface-induced dissociation studies 89

FT-ICR

- Activation of protonated peptides and molecular ions of small molecules using heated filaments in Fourier-transform ion cyclotron resonance mass spectrometry, 1
- Electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry of cyclodepsipeptides, branched peptides, and ϵ -peptides, 23
- RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37
- A review of gas-phase H/D exchange experiments: the protonated arginine dimer and bradykinin nonapeptide systems, 63
- Utility of accurate monoisotopic mass measurements to confidently identify lambda exonuclease generated single-stranded amplicons containing 7-deaza analogs by electrospray ionization FT-ICR mass spectrometry, 79
- Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123
- Strategies for automating top-down protein analysis with Q-FTICR MS, 175

FT-ICR MS

- Gas-phase reactions of lanthanide cations with alcohols, 51
- Fragmentation energetics for angiotensin II and its analogs from time- and energy-resolved surface-induced dissociation studies 89
- Considerations for electron capture dissociation efficiency in FTICR mass spectrometry, 131
- Chemical cross-linking of the urease complex from *Helicobacter pylori* and analysis by Fourier transform ion cyclotron resonance mass spectrometry and molecular modeling, 137
- Glycoproteomics of cerebrospinal fluid in neurodegenerative disease, 145

FTMS

- RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37
- Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123
- Chemical cross-linking of the urease complex from *Helicobacter pylori* and analysis by Fourier transform ion cyclotron resonance mass spectrometry and molecular modeling, 137
- Glycoproteomics of cerebrospinal fluid in neurodegenerative disease, 145

- Strategies for automating top-down protein analysis with Q-FTICR MS, 175

- High pressure MALDI-FTMS: implications for proteomics, 203

Fucosylation

- Structural studies on protein O-fucosylation by electron capture dissociation, 11

Gas phase

- Gas-phase reactions of lanthanide cations with alcohols, 51

Glycopeptide

- Structural studies on protein O-fucosylation by electron capture dissociation, 11

Glycoprotein

- Glycoproteomics of cerebrospinal fluid in neurodegenerative disease, 145

Graybody

- Activation of protonated peptides and molecular ions of small molecules using heated filaments in Fourier-transform ion cyclotron resonance mass spectrometry, 1

H/D exchange

- A review of gas-phase H/D exchange experiments: the protonated arginine dimer and bradykinin nonapeptide systems, 63

Histone posttranslational modifications

- Comparison of peptide mass mapping and electron capture dissociation as assays for histone posttranslational modifications 213

ICR

- Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123

Interference

- Interference from multiple cations in MALDI-MS spectra of copolymers, 153

Ion cyclotron resonance

- Glycoproteomics of cerebrospinal fluid in neurodegenerative disease 145

Ion loss

- The influence of spontaneous m/z-changes on the ion motion in an ion cyclotron resonance trap, 161

Ion/molecule complex

- On the double benzylic hydrogen migration in the molecular ion of *N*-(5-phenylvaleryl)-1-azacyclopentane-2-thione, 171

Ion/molecule reactions

- Chiral analyses of peptides by ion/molecule reactions, 71

Ion motion

- The influence of spontaneous m/z-changes on the ion motion in an ion cyclotron resonance trap, 161

Ionization

- Effect of ionization mode in the analysis of proteolytic protein digests, 185

IRMPD

- Glycoproteomics of cerebrospinal fluid in neurodegenerative disease, 145

Isotope labeling

- RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

Lanthanide ions

- Gas-phase reactions of lanthanide cations with alcohols, 51

LC-MS peptide mapping

- Comparison of peptide mass mapping and electron capture dissociation as assays for histone posttranslational modifications 213

Leucine-isoleucine distinction

Comparing the gas-phase fragmentation reactions of protonated and radical cations of the tripeptides GXR, 101

MALDI

Interference from multiple cations in MALDI-MS spectra of copolymers, 153

High pressure MALDI-FTMS: implications for proteomics, 203

Mannosylation

Structural studies on protein O-fucosylation by electron capture dissociation, 11

Mass fingerprint

Effect of ionization mode in the analysis of proteolytic protein digests, 185

Mass measurement accuracy

Utility of accurate monoisotopic mass measurements to confidently identify lambda exonuclease generated single-stranded amplicons containing 7-deaza analogs by electrospray ionization FT-ICR mass spectrometry, 79

Mass spectrometry

Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123

Mechanism

On the double benzylic hydrogen migration in the molecular ion of *N*-(5-phenylvaleryl)-1-azacyclopentane-2-thione, 171

Metastable ions

On the double benzylic hydrogen migration in the molecular ion of *N*-(5-phenylvaleryl)-1-azacyclopentane-2-thione, 171

Methylations

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

Mobile proton

Comparing the gas-phase fragmentation reactions of protonated and radical cations of the tripeptides GXR, 101

Mobile radical

Comparing the gas-phase fragmentation reactions of protonated and radical cations of the tripeptides GXR, 101

Molecular modeling

Chemical cross-linking of the urease complex from *Helicobacter pylori* and analysis by Fourier transform ion cyclotron resonance mass spectrometry and molecular modeling, 137

MS/MS

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

Glycoproteomics of cerebrospinal fluid in neurodegenerative disease, 145

Multiply-charged ions

The influence of spontaneous *m/z*-changes on the ion motion in an ion cyclotron resonance trap, 161

Multiple charges

High pressure MALDI-FTMS: implications for proteomics, 203

Multisector mass spectrometry

On the double benzylic hydrogen migration in the molecular ion of *N*-(5-phenylvaleryl)-1-azacyclopentane-2-thione, 171

Multistage mass spectrometry

Comparing the gas-phase fragmentation reactions of protonated and radical cations of the tripeptides GXR, 101

Oligonucleotides

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

Rapid electron capture dissociation of mass-selectively accumulated oligodeoxynucleotide dications, 123

Oligoribonucleotide

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

Penning trap

The influence of spontaneous *m/z*-changes on the ion motion in an ion cyclotron resonance trap, 161

 ϵ -Peptides

Electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry of cyclodepsipeptides, branched peptides, and ϵ -peptides, 23

Peptides

A review of gas-phase H/D exchange experiments: the protonated arginine dimer and bradykinin nonapeptide systems, 63

Chiral analyses of peptides by ion/molecule reactions, 71

N-(5-Phenylvaleryl)-1-azacyclopentane-2-thione

On the double benzylic hydrogen migration in the molecular ion of *N*-(5-phenylvaleryl)-1-azacyclopentane-2-thione, 171

Posttranscriptional modifications

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

Proteomics

Strategies for automating top-down protein analysis with Q-FTICR MS, 175

High pressure MALDI-FTMS: implications for proteomics, 203

Protonated peptides

Fragmentation energetics for angiotensin II and its analogs from time- and energy-resolved surface-induced dissociation studies, 89

Comparing the gas-phase fragmentation reactions of protonated and radical cations of the tripeptides GXR, 101

Radical cations of peptides

Comparing the gas-phase fragmentation reactions of protonated and radical cations of the tripeptides GXR, 101

Radical directed fragmentation

Comparing the gas-phase fragmentation reactions of protonated and radical cations of the tripeptides GXR, 101

Reaction entropy

Fragmentation energetics for angiotensin II and its analogs from time- and energy-resolved surface-induced dissociation studies 89

RNA sequencing

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

RNase T1

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

RRKM modeling

Fragmentation energetics for angiotensin II and its analogs from time- and energy-resolved surface-induced dissociation studies 89

Selective cleavage

Fragmentation energetics for angiotensin II and its analogs from time- and energy-resolved surface-induced dissociation studies, 89

Site-specific rate constants

A review of gas-phase H/D exchange experiments: the protonated arginine dimer and bradykinin nonapeptide systems, 63

SORI

RNase mapping of intact nucleic acids by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37

- Considerations for electron capture dissociation efficiency in FTICR mass spectrometry, 131
- Surface-induced dissociation
 - Fragmentation energetics for angiotensin II and its analogs from time- and energy-resolved surface-induced dissociation studies, 89
- Top-down
 - Strategies for automating top-down protein analysis with Q-FTICR MS, 175
- tRNA
 - RNase mapping of intact nucleic acids by electrospray ionization
- Fourier transform ion cyclotron resonance mass spectrometry (ESI-FTICRMS) and ^{18}O labeling, 37
- Urease
 - Chemical cross-linking of the urease complex from *Helicobacter pylori* and analysis by Fourier transform ion cyclotron resonance mass spectrometry and molecular modeling, 137
- Zero-energy electrons
 - Electron capture dissociation of the disulfide bond—a quantum chemical model study, 45