

Subject index Volumes 255–256

Ab initio

- Ligation of Be^+ and Mg^+ to NF_3 : Structure, stability, and thermochemistry of the $\text{Be}^+-(\text{NF}_3)$ and $\text{Mg}^+-(\text{NF}_3)$ complexes, 11
- The unimolecular dissociation of protonated glyoxylic acid: Structure and dynamics of a step-by-step process, 177

Ab initio calculations

- Gas-phase ion chemistry of Si^+ and NF_3 : An experimental and theoretical study, 225

Accelerator mass spectrometry

- Gas-phase ion–molecule reactions for resolution of atomic isobars: AMS and ICP-MS perspectives, 312

Alkali earth and alkaline earth acetates

- Do alkali and alkaline earth acetates form organometallates via decarboxylation? A survey using electrospray ionization tandem mass spectrometry and DFT calculations, 45

Amino acid ester

- Investigations of the clustering reactions of protonated amino acid esters by high pressure mass spectrometry and quantum chemical calculations, 301

Ammonia

- Nitrosamide, (H_2NNO) , formation within $[(\text{NO})_m(\text{NH}_3)_n]^+$ clusters: Theory and experiment, 28

Anthracycline antibiotic

- Dissociation reactions of protonated anthracycline antibiotics following electrospray ionization-tandem mass spectrometry, 130

Arenium ions

- Ion/neutral complexes generated during unimolecular fragmentation: Intra-complex hydride abstraction by *tert*-butyl cations from electron-rich and electron-poor 1,3-diphenylpropanes, 195

Aspartic acid

- Fragmentation reactions of deprotonated peptides containing aspartic acid, 111

Association reactions

- A selected ion flow tube investigation of the gas phase chemistry of Li^+ , 164
- Getting a theoretical handle on fullerene ions: Quantum chemical calculations on the reactions of C_{60}^+ , C_{60}^{2+} and C_{60}^{3+} with ammonia, 213

Atomic isobars

- Gas-phase ion–molecule reactions for resolution of atomic isobars: AMS and ICP-MS perspectives, 312

Axial ejection

- Instrumentation and methods for ion and reaction monitoring using a non-scanning rectilinear ion trap, 1

Beryllium cation

- Ligation of Be^+ and Mg^+ to NF_3 : Structure, stability, and thermochemistry of the $\text{Be}^+-(\text{NF}_3)$ and $\text{Mg}^+-(\text{NF}_3)$ complexes, 11

Bond activation

- An experimental study of the mechanism for the combined C–O and C–H bond activation of dimethylether by bare Fe^+ ions, 239

Bond dissociation energy

- A selected ion flow tube investigation of the gas phase chemistry of Li^+ , 164

Bond energy

- The most reactive third-row transition metal: Guided ion beam and theoretical studies of the activation of methane by Ir^+ , 279

Bovine pancreatic trypsin

- Charge state dependent ion trap collision-induced dissociation of reduced bovine and porcine trypsin cations, 53

Branching ratios

- Kinetics of the reactions of ONOO^- with small molecules, 65

C60

- Getting a theoretical handle on fullerene ions: Quantum chemical calculations on the reactions of C_{60}^+ , C_{60}^{2+} and C_{60}^{3+} with ammonia, 213

Carbenium ions

- Ion/neutral complexes generated during unimolecular fragmentation: Intra-complex hydride abstraction by *tert*-butyl cations from electron-rich and electron-poor 1,3-diphenylpropanes, 195

Cavity ringdown spectroscopy

- Near infrared second overtone cw-cavity ringdown spectroscopy of D_2H^+ ions, 170

CBS-QB3

- Formaldehyde mediated proton-transport catalysis in the ketene–water radical cation $\text{CH}_2=\text{C}(=\text{O})\text{OH}_2^+$, 244

C–H bond activation

- The most reactive third-row transition metal: Guided ion beam and theoretical studies of the activation of methane by Ir^+ , 279

Charge transfer

- Dynamics of chemical and charge transfer reactions of molecular dications: VI. Reactions of $\text{C}_4\text{H}_3^{2+}$ with Kr, Xe, H_2 , N_2 , NO, NH_3 , C_2H_2 , and CH_4 , 150

Chemical ionization

- The unimolecular dissociation of protonated glyoxylic acid: Structure and dynamics of a step-by-step process, 177

Chemical resolution

- Gas-phase ion–molecule reactions for resolution of atomic isobars: AMS and ICP-MS perspectives, 312

Chemical-ionization mass spectrometry

- Electron affinities of polynuclear aromatic hydrocarbons and negative-ion chemical-ionization sensitivities, 123

Cluster

- Size-dependent dehydrogenation of ethane by cationic rhodium clusters in the gas phase, 71

Clustering

- Investigations of the clustering reactions of protonated amino acid esters by high pressure mass spectrometry and quantum chemical calculations, 301

Cold-cations

- Electronic absorption spectra of cold organic cations: 2,4-Hexadiyne, 139

Collision induces dissociation

- Do alkali and alkaline earth acetates form organometallates via decarboxylation? A survey using electrospray ionization tandem mass spectrometry and DFT calculations, 45

Collision-induced dissociation

The fragmentation of protonated tyrosine and iodotyrosines: The effect of substituents on the losses of NH_3 and of H_2O and CO , 265

Collision-induced dissociation

Collision-induced dissociation of $[\text{4Fe-4S}]$ cubane cluster complexes: $[\text{Fe}_4\text{S}_4\text{Cl}_{4-x}(\text{SC}_2\text{H}_5)_x]^{2-/1-}$ ($x = 0-4$), 102

Computational chemistry

Electron affinities of polynuclear aromatic hydrocarbons and negative-ion chemical-ionization sensitivities, 123

Dissociation reactions of protonated anthracycline antibiotics following electrospray ionization-tandem mass spectrometry, 130

 Cu^+ binding energies

Cu^+ association to some Ph-X ($\text{X} = \text{OH}, \text{NH}_2, \text{CHO}, \text{COOH}, \text{CF}_3$) phenyl derivatives. A comparison with Li^+ complexes, 20

 D_2H^+

Near infrared second overtone cw-cavity ringdown spectroscopy of D_2H^+ ions, 170

Decarboxylation

Do alkali and alkaline earth acetates form organometallates via decarboxylation? A survey using electrospray ionization tandem mass spectrometry and DFT calculations, 45

Dehydrogenation

Size-dependent dehydrogenation of ethane by cationic rhodium clusters in the gas phase, 71

Density-functional calculations

Cu^+ association to some Ph-X ($\text{X} = \text{OH}, \text{NH}_2, \text{CHO}, \text{COOH}, \text{CF}_3$) phenyl derivatives. A comparison with Li^+ complexes, 20

Do alkali and alkaline earth acetates form organometallates via decarboxylation? A survey using electrospray ionization tandem mass spectrometry and DFT calculations, 45

The fragmentation of protonated tyrosine and iodotyrosines: The effect of substituents on the losses of NH_3 and of H_2O and CO , 265

Deprotonated peptides

Fragmentation reactions of deprotonated peptides containing aspartic acid, 111

Deuterium plasma

Near infrared second overtone cw-cavity ringdown spectroscopy of D_2H^+ ions, 170

DFT

Ligation of Be^+ and Mg^+ to NF_3 : Structure, stability, and thermochemistry of the $\text{Be}^+-(\text{NF}_3)$ and $\text{Mg}^+-(\text{NF}_3)$ complexes, 11

1,3-Dihydroxyacetone

Formaldehyde mediated proton-transport catalysis in the ketene-water radical cation $\text{CH}_2=\text{C}(=\text{O})\text{OH}_2^+$, 244

Dimethylether

An experimental study of the mechanism for the combined C–O and C–H bond activation of dimethylether by bare Fe^+ ions, 239

Dissociation

Fragmentation of doubly charged metal–acetamide complexes: Second ionization energies and dissociation chemistries, 251

Dissociation kinetics

The kinetics of the decompositions of the proton bound dimers of 1,4-dimethylpyridine and dimethyl methylphosphonate from atmospheric pressure ion mobility spectra, 76

Doxorubicin

Dissociation reactions of protonated anthracycline antibiotics following electrospray ionization-tandem mass spectrometry, 130

D-region

Kinetics of the reactions of ONOO^- with small molecules, 65

Dynamic reaction cell

Gas-phase ion–molecule reactions for resolution of atomic isobars: AMS and ICP-MS perspectives, 312

Electron affinity

Electron affinities of polynuclear aromatic hydrocarbons and negative-ion chemical-ionization sensitivities, 123

Electron capture dissociation

Impact of ion magnetron motion on electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry, 144

Electron impact ionization

Single, double and triple ionization of tetraphenyl iron(III) porphyrin chloride, 232

Electron transfer

Fragmentation of doubly charged metal–acetamide complexes: Second ionization energies and dissociation chemistries, 251

Electronic spectra

Electronic absorption spectra of cold organic cations: 2,4-Hexadiyne, 139

Electrospray

Impact of ion magnetron motion on electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry, 144

Electrospray ionization

Reactivity of self-assembled supramolecular complexes in the gas phase: A supramolecular neighbor group effect, 185

Electrospray ionization mass spectrometry

Do alkali and alkaline earth acetates form organometallates via decarboxylation? A survey using electrospray ionization tandem mass spectrometry and DFT calculations, 45

ESI

Mass spectrometry analysis of organometallic assemblies: Bis-terpyridine-Ru(II) connectivity, 86

Ethane

Size-dependent dehydrogenation of ethane by cationic rhodium clusters in the gas phase, 71

Fe–S cluster

Collision-induced dissociation of $[\text{4Fe-4S}]$ cubane cluster complexes: $[\text{Fe}_4\text{S}_4\text{Cl}_{4-x}(\text{SC}_2\text{H}_5)_x]^{2-/1-}$ ($x = 0-4$), 102

Fe–S protein

Collision-induced dissociation of $[\text{4Fe-4S}]$ cubane cluster complexes: $[\text{Fe}_4\text{S}_4\text{Cl}_{4-x}(\text{SC}_2\text{H}_5)_x]^{2-/1-}$ ($x = 0-4$), 102

Fourier transform

Impact of ion magnetron motion on electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry, 144

Fourier transform ion cyclotron resonance

Collision-induced dissociation of $[\text{4Fe-4S}]$ cubane cluster complexes: $[\text{Fe}_4\text{S}_4\text{Cl}_{4-x}(\text{SC}_2\text{H}_5)_x]^{2-/1-}$ ($x = 0-4$), 102

Fragmentation mechanisms

Fragmentation reactions of deprotonated peptides containing aspartic acid, 111

Dissociation reactions of protonated anthracycline antibiotics following electrospray ionization-tandem mass spectrometry, 130

FT-ICR spectrometry

Ion/molecule reactions of phenylarsandiyl radical cation $\text{C}_6\text{H}_5\text{As}^{\bullet+}$ with methyl halogenides CH_3X ($\text{X} = \text{Cl}, \text{Br}, \text{I}$), 39

FTMS

Collision-induced dissociation of $[\text{4Fe-4S}]$ cubane cluster complexes: $[\text{Fe}_4\text{S}_4\text{Cl}_{4-x}(\text{SC}_2\text{H}_5)_x]^{2-/1-}$ ($x = 0-4$), 102

Gas phase

Size-dependent dehydrogenation of ethane by cationic rhodium clusters in the gas phase, 71

Gas phase clusters

Nitrosamide, (H_2NNO), formation within $[(\text{NO})_m(\text{NH}_3)_n]^+$ clusters: Theory and experiment, 28

Gas-phase ion chemistry

A selected ion flow tube investigation of the gas phase chemistry of Li^+ , 164
Gas-phase ion chemistry of Si^+ and NF_3 : An experimental and theoretical study, 225

Gas-phase ion–molecule reactions

Gas-phase ion–molecule reactions for resolution of atomic isobars: AMS and ICP-MS perspectives, 312

Guided ion beam

The most reactive third-row transition metal: Guided ion beam and theoretical studies of the activation of methane by Ir^+ , 279

Hammett plot

The fragmentation of protonated tyrosine and iodotyrosines: The effect of substituents on the losses of NH_3 and of H_2O and CO , 265

High pressure mass spectrometry

Investigations of the clustering reactions of protonated amino acid esters by high pressure mass spectrometry and quantum chemical calculations, 301

Hybrid density functional theory

Getting a theoretical handle on fullerene ions: Quantum chemical calculations on the reactions of C_{60}^+ , C_{60}^{2+} and C_{60}^{3+} with ammonia, 213

Hydride transfer

Ion/neutral complexes generated during unimolecular fragmentation: Intra-complex hydride abstraction by *tert*-butyl cations from electron-rich and electron-poor 1,3-diphenylpropanes, 195

Hydrogen plasma

Near infrared second overtone cw-cavity ringdown spectroscopy of D_2H^+ ions, 170

Hydrogen-bridged radical cation

Formaldehyde mediated proton-transport catalysis in the ketene–water radical cation $\text{CH}_2=\text{C}(=\text{O})\text{OH}_2^{+\bullet}$, 244

In situ analysis

Instrumentation and methods for ion and reaction monitoring using a non-scanning rectilinear ion trap, 1

Inductively coupled plasma mass spectrometry

Gas-phase ion–molecule reactions for resolution of atomic isobars: AMS and ICP-MS perspectives, 312

Infrared multiphoton dissociation

Reactivity of self-assembled supramolecular complexes in the gas phase: A supramolecular neighbor group effect, 185

Interstellar-absorption

Electronic absorption spectra of cold organic cations: 2,4-Hexadiyne, 139

Ion cyclotron resonance

Impact of ion magnetron motion on electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry, 144

Ion mobility

The kinetics of the decompositions of the proton bound dimers of 1,4-dimethylpyridine and dimethyl methylphosphonate from atmospheric pressure ion mobility spectra, 76

Ion trap

Electronic absorption spectra of cold organic cations: 2,4-Hexadiyne, 139

Ion trap collision-induced dissociation

Charge state dependent ion trap collision-induced dissociation of reduced bovine and porcine trypsin cations, 53

Ion trap mass spectrometry

Gas-phase ion chemistry of Si^+ and NF_3 : An experimental and theoretical study, 225

Ion/molecule reaction

Ion/molecule reactions of phenylarsandiyl radical cation $\text{C}_6\text{H}_5\text{As}^{+\bullet}$ with methyl halogenides CH_3X ($\text{X} = \text{Cl}, \text{Br}, \text{I}$), 39

Ion/neutral complexes

Ion/neutral complexes generated during unimolecular fragmentation: Intra-complex hydride abstraction by *tert*-butyl cations from electron-rich and electron-poor 1,3-diphenylpropanes, 195

Ion–ion reactions

Charge state dependent ion trap collision-induced dissociation of reduced bovine and porcine trypsin cations, 53

Ion–molecule chemistry

Nitrosamide, (H_2NNO), formation within $[(\text{NO})_m(\text{NH}_3)_n]^+$ clusters: Theory and experiment, 28

Iridium

The most reactive third-row transition metal: Guided ion beam and theoretical studies of the activation of methane by Ir^+ , 279

Iron

An experimental study of the mechanism for the combined $\text{C}=\text{O}$ and $\text{C}=\text{H}$ bond activation of dimethylether by bare Fe^+ ions, 239

Isotope effects

An experimental study of the mechanism for the combined $\text{C}=\text{O}$ and $\text{C}=\text{H}$ bond activation of dimethylether by bare Fe^+ ions, 239

Ketene–water ion

Formaldehyde mediated proton-transport catalysis in the ketene–water radical cation $\text{CH}_2=\text{C}(=\text{O})\text{OH}_2^{+\bullet}$, 244

Kinetics

Ion/molecule reactions of phenylarsandiyl radical cation $\text{C}_6\text{H}_5\text{As}^{+\bullet}$ with methyl halogenides CH_3X ($\text{X} = \text{Cl}, \text{Br}, \text{I}$), 39

 Li^+ binding energies

Cu^+ association to some Ph-X ($\text{X} = \text{OH}, \text{NH}_2, \text{CHO}, \text{COOH}, \text{CF}_3$) phenyl derivatives. A comparison with Li^+ complexes, 20

Lithium ions

A selected ion flow tube investigation of the gas phase chemistry of Li^+ , 164

Magnesium cation

Ligation of Be^+ and Mg^+ to NF_3 : Structure, stability, and thermochemistry of the $\text{Be}^+-(\text{NF}_3)$ and $\text{Mg}^+-(\text{NF}_3)$ complexes, 11

Magnetron motion

Impact of ion magnetron motion on electron capture dissociation Fourier transform ion cyclotron resonance mass spectrometry, 144

MALDI

Mass spectrometry analysis of organometallic assemblies: Bis-terpyridine- Ru(II) connectivity, 86

Mass spectrometry

Collision-induced dissociation of $[\text{4Fe-4S}]$ cubane cluster complexes: $[\text{Fe}_4\text{S}_4\text{Cl}_{4-x}(\text{SC}_2\text{H}_5)_x]^{2-/1-}$ ($x = 0-4$), 102

The unimolecular dissociation of protonated glyoxylic acid: Structure and dynamics of a step-by-step process, 177

Reactivity of self-assembled supramolecular complexes in the gas phase: A supramolecular neighbor group effect, 185

Metal acetamide complexes

Fragmentation of doubly charged metal–acetamide complexes: Second ionization energies and dissociation chemistries, 251

Methane

The most reactive third-row transition metal: Guided ion beam and theoretical studies of the activation of methane by Ir^+ , 279

Miniature mass spectrometer

Instrumentation and methods for ion and reaction monitoring using a non-scanning rectilinear ion trap, 1

Molecular dications

Dynamics of chemical and charge transfer reactions of molecular dications: VI. Reactions of $\text{C}_4\text{H}_3^{2+}$ with $\text{Kr}, \text{Xe}, \text{H}_2, \text{N}_2, \text{NO}, \text{NH}_3, \text{C}_2\text{H}_2$, and CH_4 , 150

Molecular polycation

Getting a theoretical handle on fullerene ions: Quantum chemical calculations on the reactions of C_{60}^+ , C_{60}^{2+} and C_{60}^{3+} with ammonia, 213

MS/MS

Collision-induced dissociation of $[\text{4Fe-4S}]$ cubane cluster complexes: $[\text{Fe}_4\text{S}_4\text{Cl}_{4-x}(\text{SC}_2\text{H}_5)_x]^{2-/1-}$ ($x = 0-4$), 102

Mass spectrometry analysis of organometallic assemblies: Bis-terpyridine- Ru(II) connectivity, 86

Multiply charged ions

Single, double and triple ionization of tetraphenyl iron(III) porphyrin chloride, 232

Nitric oxide

Nitrosamide, (H_2NNO), formation within $[(\text{NO})_m(\text{NH}_3)_n]^+$ clusters: Theory and experiment, 28

Nitroalkane

Competing rearrangement reactions in small gas-phase ionic complexes: The internal $\text{S}_\text{N}2$ and nitro-nitrite rearrangements in nitroalkane proton-bound pairs, 93

Nitrogen trifluoride

Ligation of Be^+ and Mg^+ to NF_3 : Structure, stability, and thermochemistry of the $\text{Be}^+-(\text{NF}_3)$ and $\text{Mg}^+-(\text{NF}_3)$ complexes, 11

Gas-phase ion chemistry of Si^+ and NF_3 : An experimental and theoretical study, 225

Nitro-nitrite

Competing rearrangement reactions in small gas-phase ionic complexes:
The internal S_N2 and nitro-nitrite rearrangements in nitroalkane proton-bound pairs, 93

Nitrosamide

Nitrosamide, (H_2NNO), formation within $[(NO)_m(NH_3)_n]^+$ clusters:
Theory and experiment, 28

Noncovalent complexes

Mass spectrometry analysis of organometallic assemblies: Bis-terpyridine-Ru(II) connectivity, 86

ONOO⁻

Kinetics of the reactions of ONOO⁻ with small molecules, 65

Organic cation

Electronic absorption spectra of cold organic cations: 2,4-Hexadiyne, 139

Organoarsenic derivatives

Ion/molecule reactions of phenylarsandiyl radical cation $C_6H_5As^{*+}$ with methyl halogenides CH_3X ($X = Cl, Br, I$), 39

Organometallate anions

Do alkali and alkaline earth acetates form organometallates via decarboxylation? A survey using electrospray ionization tandem mass spectrometry and DFT calculations, 45

Organometallic polymers

Mass spectrometry analysis of organometallic assemblies: Bis-terpyridine-Ru(II) connectivity, 86

Peroxynitrite

Kinetics of the reactions of ONOO⁻ with small molecules, 65

Phenyl derivatives

Cu^+ association to some Ph-X ($X = OH, NH_2, CHO, COOH, CF_3$) phenyl derivatives. A comparison with Li^+ complexes, 20

Phenylarsandiyl radical cation

Ion/molecule reactions of phenylarsandiyl radical cation $C_6H_5As^+$ with methyl halogenides CH_3X ($X = Cl, Br, I$), 39

Polynuclear aromatic hydrocarbon (PAH)

Electron affinities of polynuclear aromatic hydrocarbons and negative-ion chemical-ionization sensitivities, 123

Polynuclear metal complex

Reactivity of self-assembled supramolecular complexes in the gas phase: A supramolecular neighbor group effect, 185

Porcine pancreatic trypsin

Charge state dependent ion trap collision-induced dissociation of reduced bovine and porcine trypsin cations, 53

Porphyrins

Single, double and triple ionization of tetraphenyl iron(III) porphyrin chloride, 232

Proton bound dimers

The kinetics of the decompositions of the proton bound dimers of 1,4-dimethylpyridine and dimethyl methylphosphonate from atmospheric pressure ion mobility spectra, 76

Proton transfer

Dynamics of chemical and charge transfer reactions of molecular dications: VI. Reactions of $C_4H_3^{2+}$ with Kr, Xe, H_2 , N_2 , NO, NH_3 , C_2H_2 , and CH_4 , 150

Ion/neutral complexes generated during unimolecular fragmentation: Intracomplex hydride abstraction by *tert*-butyl cations from electron-rich and electron-poor 1,3-diphenylpropanes, 195

Getting a theoretical handle on fullerene ions: Quantum chemical calculations on the reactions of C_{60}^+ , C_{60}^{2+} and C_{60}^{3+} with ammonia, 213

Fragmentation of doubly charged metal-acetamide complexes: Second ionization energies and dissociation chemistries, 251

Protonated thyroxine

The fragmentation of protonated tyrosine and iodotyrosines: The effect of substituents on the losses of NH_3 and of H_2O and CO, 265

Protonation

The unimolecular dissociation of protonated glyoxylic acid: Structure and dynamics of a step-by-step process, 177

Proton-bound pairs

Competing rearrangement reactions in small gas-phase ionic complexes:
The internal S_N2 and nitro-nitrite rearrangements in nitroalkane proton-bound pairs, 93

Proton-transport catalysis

Formaldehyde mediated proton-transport catalysis in the ketene-water radical cation $CH_2=C(=O)OH_2^+$, 244

Quadrupole ion trap

Instrumentation and methods for ion and reaction monitoring using a non-scanning rectilinear ion trap, 1

Quantum chemical calculation

Getting a theoretical handle on fullerene ions: Quantum chemical calculations on the reactions of C_{60}^+ , C_{60}^{2+} and C_{60}^{3+} with ammonia, 213
Investigations of the clustering reactions of protonated amino acid esters by high pressure mass spectrometry and quantum chemical calculations, 301

Quantum chemistry

The unimolecular dissociation of protonated glyoxylic acid: Structure and dynamics of a step-by-step process, 177

Rate constant

Kinetics of the reactions of ONOO⁻ with small molecules, 65

Reaction dynamics

Dynamics of chemical and charge transfer reactions of molecular dications: VI. Reactions of $C_4H_3^{2+}$ with Kr, Xe, H_2 , N_2 , NO, NH_3 , C_2H_2 , and CH_4 , 150

The unimolecular dissociation of protonated glyoxylic acid: Structure and dynamics of a step-by-step process, 177

Reaction mechanisms

The unimolecular dissociation of protonated glyoxylic acid: Structure and dynamics of a step-by-step process, 177

An experimental study of the mechanism for the combined C–O and C–H bond activation of dimethylether by bare Fe^+ ions, 239

Rearrangement

Competing rearrangement reactions in small gas-phase ionic complexes:
The internal S_N2 and nitro-nitrite rearrangements in nitroalkane proton-bound pairs, 93

Rectilinear ion trap

Instrumentation and methods for ion and reaction monitoring using a non-scanning rectilinear ion trap, 1

Rhodium

Size-dependent dehydrogenation of ethane by cationic rhodium clusters in the gas phase, 71

Second ionization energies

Fragmentation of doubly charged metal-acetamide complexes: Second ionization energies and dissociation chemistries, 251

Second overtone

Near infrared second overtone cw-cavity ringdown spectroscopy of D_2H^+ ions, 170

Self-assembly

Reactivity of self-assembled supramolecular complexes in the gas phase: A supramolecular neighbor group effect, 185

SIFT-MS

A selected ion flow tube investigation of the gas phase chemistry of Li^+ , 164

Silicon ions

Gas-phase ion chemistry of Si^+ and NF_3 : An experimental and theoretical study, 225

 S_N2

Competing rearrangement reactions in small gas-phase ionic complexes:
The internal S_N2 and nitro-nitrite rearrangements in nitroalkane proton-bound pairs, 93

Structure and energetics

Investigations of the clustering reactions of protonated amino acid esters by high pressure mass spectrometry and quantum chemical calculations, 301

Substituent effect

The fragmentation of protonated tyrosine and iodotyrosines: The effect of substituents on the losses of NH_3 and of H_2O and CO , 265

Tandem mass spectrometry

Fragmentation reactions of deprotonated peptides containing aspartic acid, 111

Dissociation reactions of protonated anthracycline antibiotics following electrospray ionization-tandem mass spectrometry, 130

Thermochemistry

Investigations of the clustering reactions of protonated amino acid esters by high pressure mass spectrometry and quantum chemical calculations, 301

Top down proteomics

Charge state dependent ion trap collision-induced dissociation of reduced bovine and porcine trypsin cations, 53

Unimolecular dissociation

Single, double and triple ionization of tetraphenyl iron(III) porphyrin chloride, 232