



**ASMS NEWS & VIEWS**

*i-iii*

ASMS News & Views  
*Edited by Gavin Reid*

**OBITUARIES**

**1243–1244**

Peter John Derrick (1945–2017)  
*M. Sheil*

**1245–1247**

John M. Hayes (1940–2017)  
*D.E. Matthews*

**REVIEW**

**1248–1249**

2016 ASMS Workshop Review: Next Generation LC/MS: Critical Insights and Future Perspectives  
*H. Gao, A. Makarov, and R.D. Smith*

**FOCUS: BIO-ION CHEMISTRY: INTERACTIONS OF BIOLOGICAL IONS WITH IONS, MOLECULES, SURFACES, ELECTRONS, AND LIGHT: EDITORIAL**

**1250–1253**

Focus on Bio-Ion Chemistry: Interactions of Biological Ions with Ions, Molecules, Surfaces, Electrons, and Light, Honoring Scott A. McLuckey, Recipient of the 2016 ASMS Award for a Distinguished Contribution in Mass Spectrometry  
*Y. Xia and V.M. Bierbaum*

Instructions for authors for *The Journal of The American Society for Mass Spectrometry* can be found at [www.springer.com/13361](http://www.springer.com/13361)

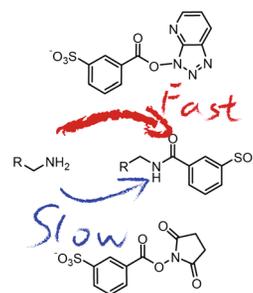
**Abstracted/Indexed in:** *Academic OneFile, Academic Search, Chimica, CSA/Proquest, Current Abstracts, Current Contents/Physical, Chemical and Earth Sciences, EI-Compendex, EMBASE, Food Science and Technology Abstracts, Google Scholar, IBIDS, INIS Atomindex, Inspec, OCLC, PubMed/Medline, Science Citation Index, Science Citation Index Expanded (SciSearch), SCOPUS, and Summon by Serial Solutions.*

Journal of the American Society for Mass Spectrometry (ISSN 1044-0305) is published monthly by Springer Science & Business Media, 233 Spring St, 6th Fl., New York, NY. Periodicals postage is pending at New York, NY and additional mailing offices. POSTMASTER: Send address changes to *Journal of The American Society for Mass Spectrometry*, Springer, 233 Spring Street, New York, NY 10013, USA.

**FOCUS: BIO-ION CHEMISTRY: INTERACTIONS OF BIOLOGICAL IONS WITH IONS, MOLECULES, SURFACES, ELECTRONS, AND LIGHT: RESEARCH ARTICLES**
**1254–1261**

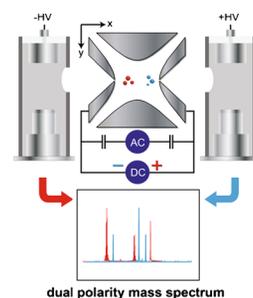
Enhanced Reactivity in Nucleophilic Acyl Substitution Ion/Ion Reactions Using Triazole-Ester Reagents

*J. Bu, Z. Peng, F. Zhao, and S.A. McLuckey*


**1262–1270**

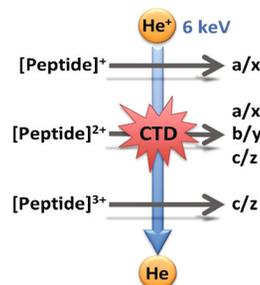
Dual-Polarity Ion Trap Mass Spectrometry: Dynamic Monitoring and Controlling Gas-phase Ion–Ion Reactions

*M. He, Y. Jiang, D. Guo, X. Xiong, X. Fang, and W. Xu*


**1271–1281**

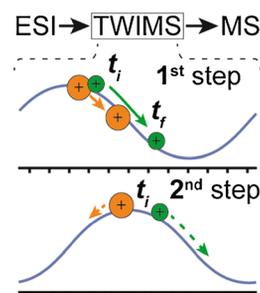
Charge Transfer Dissociation (CTD) Mass Spectrometry of Peptide Cations: Study of Charge State Effects and Side-Chain Losses

*P. Li and G.P. Jackson*


**1282–1292**

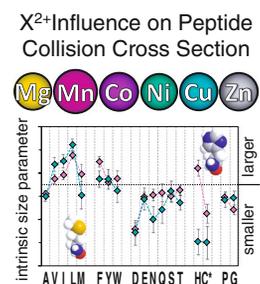
Collisional Cross-Sections with T-Wave Ion Mobility Spectrometry without Experimental Calibration

*D.N. Mortensen, A.C. Susa, and E.R. Williams*


**1293–1303**

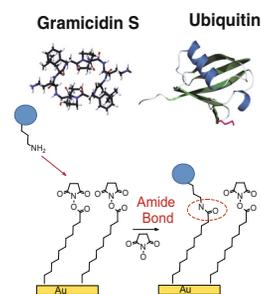
A Database of Transition-Metal-Coordinated Peptide Cross-Sections: Selective Interaction with Specific Amino Acid Residues

*J.M. Dilger, M.S. Glover, and D.E. Clemmer*



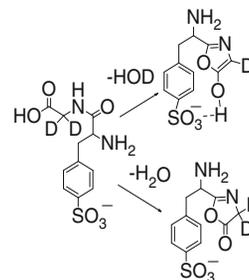
## 1304–1312

Reactive Landing of Gramicidin S and Ubiquitin Ions onto Activated Self-Assembled Monolayer Surfaces  
*J. Laskin and Q. Hu*



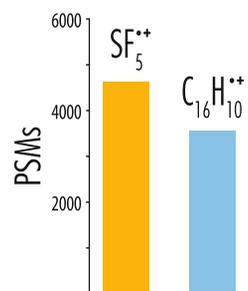
## 1313–1323

Participation of C-H Protons in the Dissociation of a Proton Deficient Dipeptide  
*D. Koirala, S. Mistry, and P.G. Wenthold*



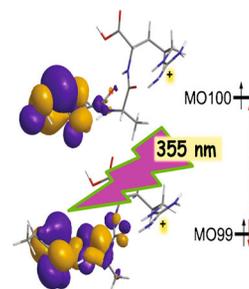
## 1324–1332

Sulfur Pentafluoride is a Preferred Reagent Cation for Negative Electron Transfer Dissociation  
*M.J.P. Rush, N.M. Riley, M.S. Westphall, J.E.P. Syka, and J.J. Coon*



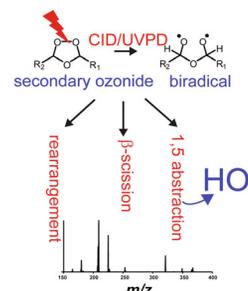
## 1333–1344

Near-UV Photodissociation of Tryptic Peptide Cation Radicals. Scope and Effects of Amino Acid Residues and Radical Sites  
*H.T.H. Nguyen and F. Tureček*



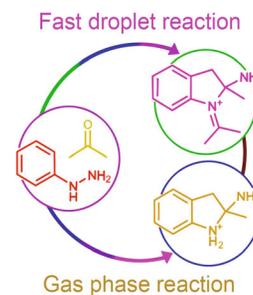
## 1345–1358

Radical Generation from the Gas-Phase Activation of Ionized Lipid Ozonides  
*S.R. Ellis, H.T. Pham, M. in het Panhuis, A.J. Trevitt, T.W. Mitchell, and S.J. Blanksby*

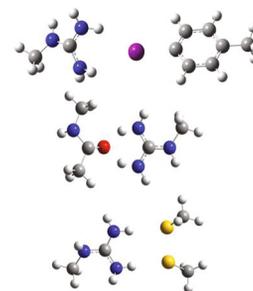


**1359–1364**

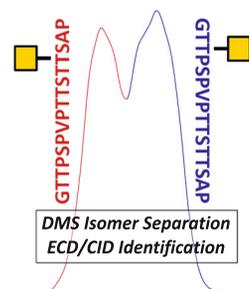
Fischer Indole Synthesis in the Gas Phase, the Solution Phase,  
and at the Electrospray Droplet Interface  
*R.M. Bain, S.T. Ayrton, and R.G. Cooks*

**1365–1373**

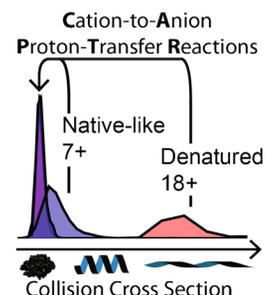
Leveraging Electron Transfer Dissociation for Site Selective Radical  
Generation: Applications for Peptide Epimer Analysis  
*Y.A. Lyon, G. Beran, and R.R. Julian*

**1374–1381**

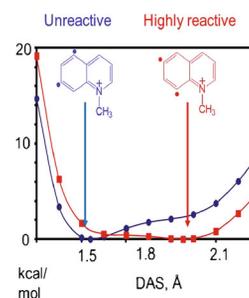
Analyzing Glycopeptide Isomers by Combining Differential  
Mobility Spectrometry with Electron- and Collision-Based  
Tandem Mass Spectrometry  
*J.L. Campbell, T. Baba, C. Liu, C.S. Lane, J.C.Y. Le Blanc,  
and J.W. Hager*

**1382–1391**

Native-Like and Denatured Cytochrome c Ions Yield Cation-to-Anion  
Proton Transfer Reaction Products with Similar Collision Cross-Sections  
*K.J. Laszlo, J.H. Buckner, E.B. Munger, and M.F. Bush*

**1392–1405**

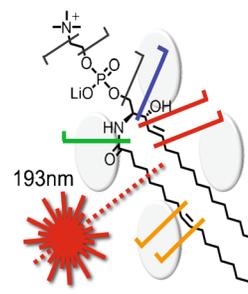
Gas-phase Reactivity of *meta*-Benzyne Analogs Toward Small  
Oligonucleotides of Differing Lengths  
*F. Widjaja, J.P. Max, Z. Jin, J.J. Nash, and H.I. Kenttämäa*



## 1406–1419

Detailed Structural Characterization of Sphingolipids via 193 nm Ultraviolet Photodissociation and Ultra High Resolution Tandem Mass Spectrometry

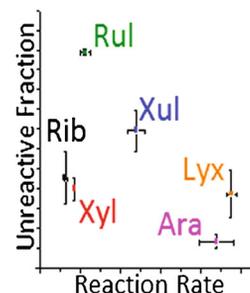
*E. Ryan, C.Q.N. Nguyen, C. Shiea, and G.E. Reid*



## 1420–1424

Identifying the D-Pentoses Using Water Adduction to Lithium Cationized Molecule

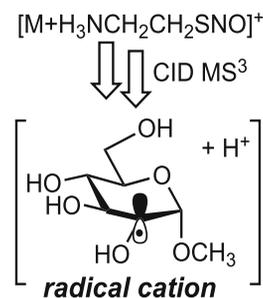
*M.T. Campbell, D. Chen, and G.L. Glish*



## 1425–1431

Gas-Phase Intercluster Thiyl-Radical Induced C–H Bond Homolysis Selectively Forms Sugar C2-Radical Cations of Methyl D-Glucopyranoside: Isotopic Labeling Studies and Cleavage Reactions

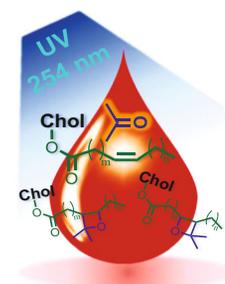
*S. Osburn, G. Speciale, S.J. Williams, and R.A.J. O’Hair*



## 1432–1441

Uncovering Structural Diversity of Unsaturated Fatty Acyls in Cholesteryl Esters via Photochemical Reaction and Tandem Mass Spectrometry

*J. Ren, E.T. Franklin, and Y. Xia*



## 1442–1449

Design of a TW-SLIM Module for Dual Polarity Confinement, Transport, and Reactions

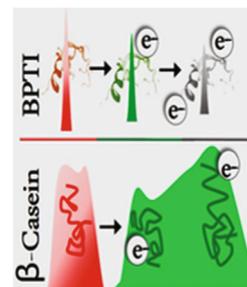
*S.V.B. Garimella, I.K. Webb, A. Prabhakaran, I.K. Attah, Y.M. Ibrahim, and R.D. Smith*



## 1450–1461

Charge Mediated Compaction and Rearrangement of Gas-Phase Proteins: A Case Study Considering Two Proteins at Opposing Ends of the Structure-Disorder Continuum

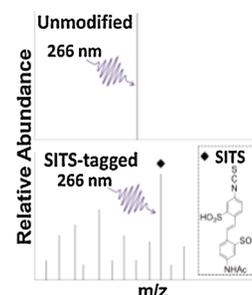
*J.R. Jhingree, B. Bellina, K.J. Pacholarz, and P.E. Barran*



## 1462–1472

SITS Derivatization of Peptides to Enhance 266 nm Ultraviolet Photodissociation (UVPD)

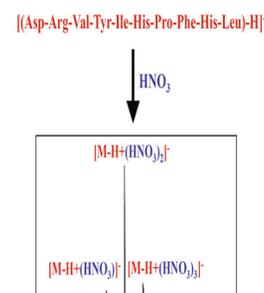
*M.M. Quick, M.R. Mehaffey, R.W. Johns, W.R. Parker, and J.S. Brodbelt*



## 1473–1481

Flame Atmospheric Pressure Chemical Ionization Coupled with Negative Electrospray Ionization Mass Spectrometry for Ion-Molecule Reactions

*S.-C. Cheng, S.M. Bhat, and J. Shiea*



## 1482–1488

Infrared Multiple-Photon Dissociation Action Spectroscopy of the  $b_2^+$  Ion from PPG: Evidence of Third Residue Affecting  $b_2^+$  Fragment Structure

*J.C. Poutsma, J. Martens, J. Oomens, P. Maitre, V. Steinmetz, M. Bernier, M. Jia, and V. Wysocki*

