

ASMS NEWS & VIEWS

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ASMS News & Views
Edited by Gavin Reid

FOCUS: ADVANCING HIGH PERFORMANCE MASS SPECTROMETRY: EDITORIAL

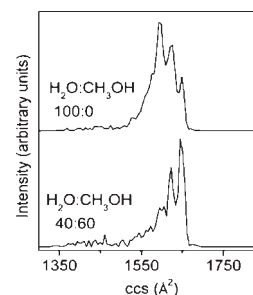
1997 – 1999

Focus on Advancing High Performance Mass Spectrometry, Honoring Dr. Richard D. Smith, Recipient of the 2013 Award for a Distinguished Contribution in Mass Spectrometry
E.S. Baker, D.C. Muddiman, and J.A. Loo

FOCUS: ADVANCING HIGH PERFORMANCE MASS SPECTROMETRY: RESEARCH ARTICLES

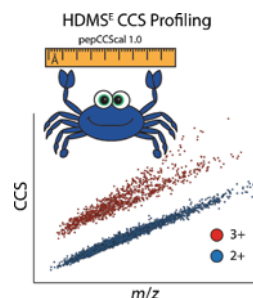
2000 – 2008

Solution Dependence of the Collisional Activation of Ubiquitin $[M + 7H]^{7+}$ Ions
H. Shi, N. Atlasevich, S.I. Merenbloom, and D.E. Clemmer



2009 – 2019

Large-Scale Collision Cross-Section Profiling on a Traveling Wave Ion Mobility Mass Spectrometer
C.B. Lietz, Q. Yu, and L. Li



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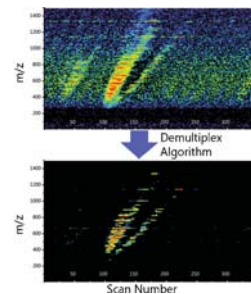
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2020 – 2027

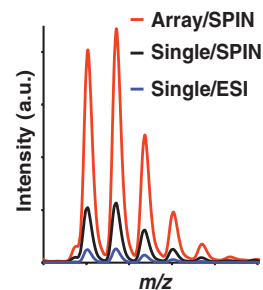
Detecting and Removing Data Artifacts in Hadamard Transform Ion Mobility-Mass Spectrometry Measurements

S.A. Prost, K.L. Crowell, E.S. Baker, Y.M. Ibrahim, B.H. Clowers, M.E. Monroe, G.A. Anderson, R.D. Smith, and S.H. Payne

**2028 – 2037**

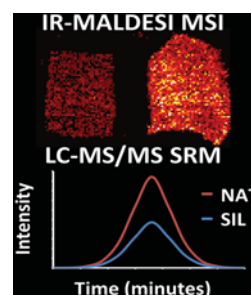
Improving the Sensitivity of Mass Spectrometry by Using a New Sheath Flow Electrospray Emitter Array at Subambient Pressures

J.T. Cox, I. Marginean, R.T. Kelly, R.D. Smith, and K. Tang

**2038 – 2047**

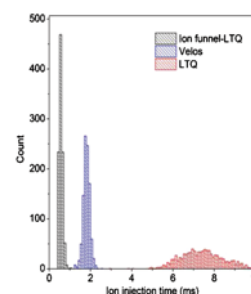
Mapping Antiretroviral Drugs in Tissue by IR-MALDESI MSI Coupled to the Q Exactive and Comparison with LC-MS/MS SRM Assay

J.A. Barry, G. Robichaud, M.T. Bokhart, C. Thompson, C. Sykes, A.D.M. Kashuba, and D.C. Muddiman

**2048 – 2059**

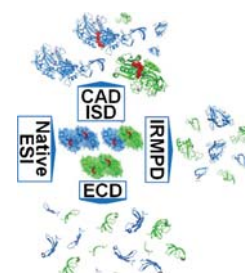
Comparison of Data Acquisition Strategies on Quadrupole Ion Trap Instrumentation for Shotgun Proteomics

J.D. Canterbury, G.E. Merrihew, M.J. MacCoss, D.R. Goodlett, and S.A. Shaffer

**2060 – 2068**

Revealing Ligand Binding Sites and Quantifying Subunit Variants of Noncovalent Protein Complexes in a Single Native Top-Down FTICR MS Experiment

H. Li, P. Wongkongkathep, S.L. Van Orden, R.R. Ogorzalek Loo, and J.A. Loo

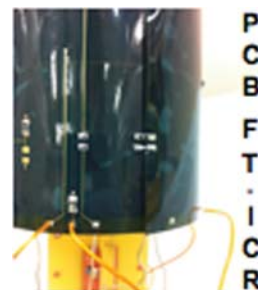


FOCUS: ADVANCING HIGH PERFORMANCE MASS SPECTROMETRY: APPLICATION NOTE

2069 – 2072

Application of Printed Circuit Board Technology to FT-ICR MS Analyzer Cell Construction and Prototyping

F.E. Leach III, R. Norheim, G. Anderson, and L. Pasa-Tolic

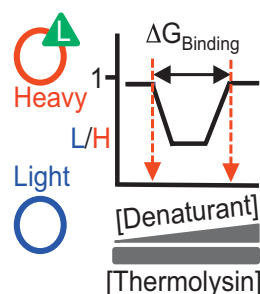


RESEARCH ARTICLES

2073 – 2083

SILAC-Pulse Proteolysis: A Mass Spectrometry-Based Method for Discovery and Cross-Validation in Proteome-Wide Studies of Ligand Binding

J. Adhikari and M.C. Fitzgerald



2084 – 2092

Fast Photochemical Oxidation of Proteins (FPOP) Maps the Epitope of EGFR Binding to Adnectin

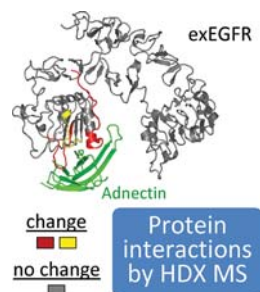
Y. Yan, G. Chen, H. Wei, R.Y.-C. Huang, J. Mo, D.L. Rempel, A.A. Tymiak, and M.L. Gross



2093 – 2102

The Influence of Adnectin Binding on the Extracellular Domain of Epidermal Growth Factor Receptor

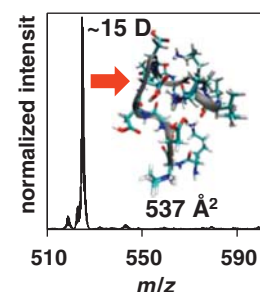
R.E. Iacob, G. Chen, J. Ahn, S. Houel, H. Wei, J. Mo, L. Tao, D. Cohen, D. Xie, Z. Lin, P.E. Morin, M.L. Doyle, A.A. Tymiak, and J.R. Engen



2103 – 2115

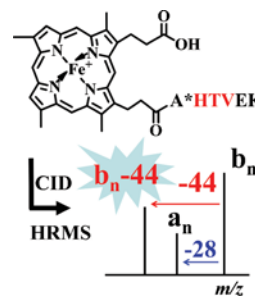
Combining Ion Mobility Spectrometry with Hydrogen-Deuterium Exchange and Top-Down MS for Peptide Ion Structure Analysis

M. Khakinejad, S.G. Kondalaji, H. Maleki, J.R. Arndt, G.C. Donohoe, and S.J. Valentine

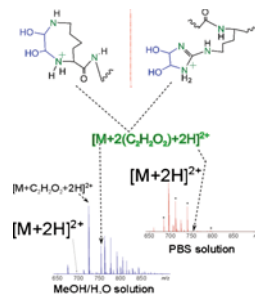


2116 – 2124

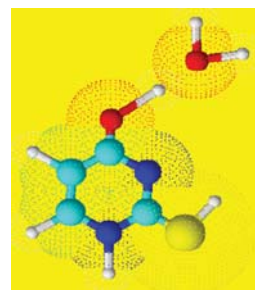
Investigation of b_n -44 Peptide Fragments Using High Resolution Mass Spectrometry and Isotope Labeling
B. Wang, J. Yu, H. Wang, Z. Wei, X. Guo, Z. Xiao, Z. Zeng, and W. Kong

**2125 – 2133**

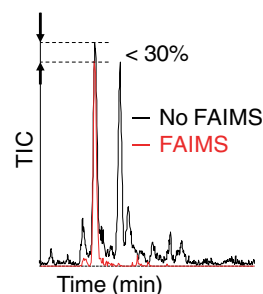
Unexpected Crosslinking and Diglycation as Advanced Glycation End-Products from Glyoxal
A.F. Lopez-Clavijo, C.A. Duque-Daza, A. Soulby, I.R. Canelon, M. Barrow, and P.B. O'Connor

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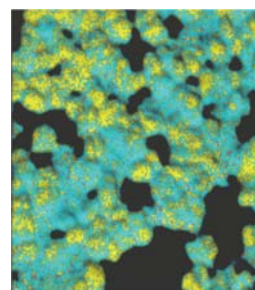
Hydration Energies of Protonated and Sodiated Thiouracils
H. Wincel

**2143 – 2153**

On an Aerodynamic Mechanism to Enhance Ion Transmission and Sensitivity of FAIMS for Nano-Electrospray Ionization-Mass Spectrometry
S. Prasad, M.W. Belford, J.-J. Dunyach, and R.W. Purves

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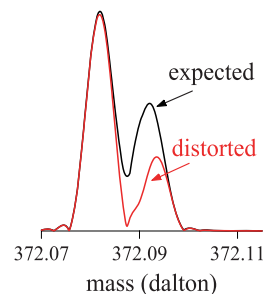
Improving Secondary Ion Mass Spectrometry Image Quality with Image Fusion
J.G. Tarolli, L.M. Jackson, and N. Winograd



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Signal Processing

A.L. Rockwood and J.C.L. Erve

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In Situ Characterization of Proteins Using Laserspray Ionization
on a High-Performance MALDI-LTQ-Orbitrap Mass Spectrometer

B. Chen, C.B. Lietz, and L. Li

HRAM Laserspray Ionization**2181 – 2184**

Direct Analysis in Real Time-Mass Spectrometry for the Rapid
Detection of Metabolites of Aconite Alkaloids in Intestinal Bacteria
X. Li, G. Hou, J. Xing, F. Song, Z. Liu, and S. Liu

