

ASMS NEWS & VIEWS

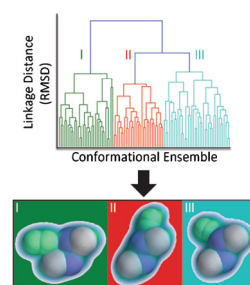
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ASMS News & Views
Edited by Gavin Reid

CRITICAL INSIGHT

1991–2000

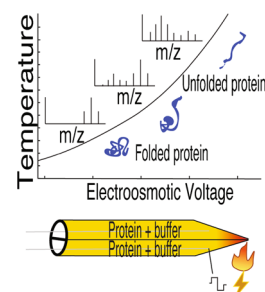
Coming to Grips with Ambiguity: Ion Mobility-Mass Spectrometry for Protein Quaternary Structure Assignment
J.D. Eschweiler, A.T. Frank, and B.T. Ruotolo



RESEARCH ARTICLES

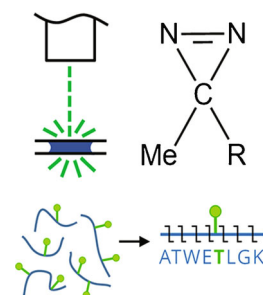
2001–2010

Joule Heating and Thermal Denaturation of Proteins in Nano-ESI Theta Tips
F. Zhao, S.M. Matt, J. Bu, O.G. Rehrauer, D. Ben-Amotz, and S.A. McLuckey



2011–2021

Amino Acid Insertion Frequencies Arising from Photoproducts Generated Using Aliphatic Diazirines
D.S. Ziemianowicz, R. Bomgarden, C. Etienne, and D.C. Schriemer



Instructions for authors for *The Journal of The American Society for Mass Spectrometry* can be found at www.springer.com/13361

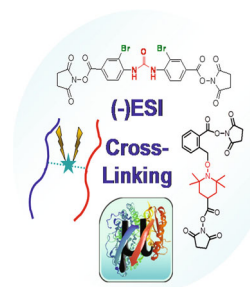
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2022–2038

Novel Concepts of MS-Cleavable Cross-linkers for Improved Peptide Structure Analysis

C. Hage, F. Falvo, M. Schäfer, and A. Sinz

**2039–2053**

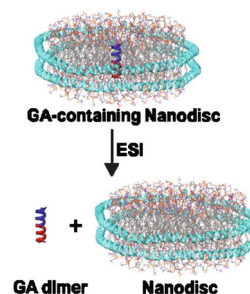
A Novel MS-Cleavable Azo Cross-Linker for Peptide Structure Analysis by Free Radical Initiated Peptide Sequencing (FRIPS)

C. Iacobucci, C. Hage, M. Schäfer, and A. Sinz

**2054–2065**

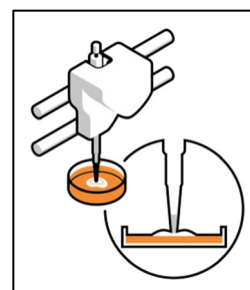
Delivering Transmembrane Peptide Complexes to the Gas Phase Using Nanodiscs and Electrospray Ionization

J. Li, M.R. Richards, E.N. Kitova, and J.S. Klassen

**2066–2077**

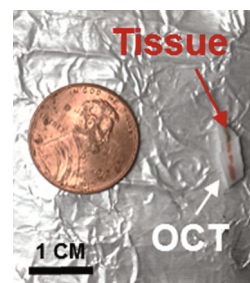
Top-Down LESA Mass Spectrometry Protein Analysis of Gram-Positive and Gram-Negative Bacteria

K.I. Kocurek, L. Stones, J. Bunch, R.C. May, and H.J. Cooper

**2078–2089**

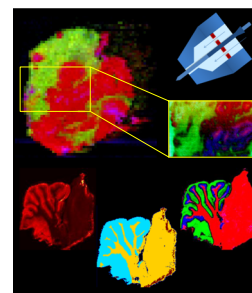
Quantitative Proteomic Analysis of Optimal Cutting Temperature (OCT) Embedded Core-Needle Biopsy of Lung Cancer

X. Zhao, K.E. Huffman, J. Fujimoto, J.R. Canales, L. Girard, G. Nie, J.V. Heymach, I.I. Wistuba, J.D. Minna, and Y. Yu

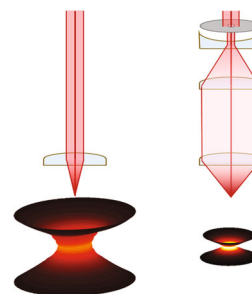


2090–2098

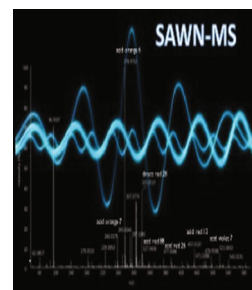
Faster, More Reproducible DESI-MS for Biological Tissue Imaging
*J. Tillner, V. Wu, E.A. Jones, S.D. Pringle, T. Karancsi,
A. Dannhorn, K. Veselkov, J.S. McKenzie, and Z. Takats*

**2099–2107**

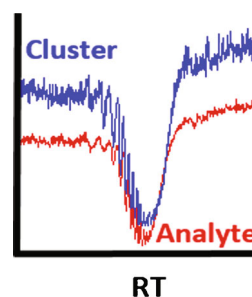
IR-MALDESI Mass Spectrometry Imaging at 50 Micron
Spatial Resolution
*M.T. Bokhart, J. Manni, K.P. Garrard, M. Ekelöf,
M. Nazari, and D.C. Muddiman*

**2108–2116**

Surface Acoustic Wave Nebulisation Mass Spectrometry
for the Fast and Highly Sensitive Characterisation of Synthetic
Dyes in Textile Samples
A. Astefanei, M. van Bommel, and G.L. Corthals

**2117–2123**

Method for Continuous Monitoring of Electrospray Ion Formation
*G. Metzler, S. Crathern, L. Bachmann, C. Fernández-Metzler,
and R. King*

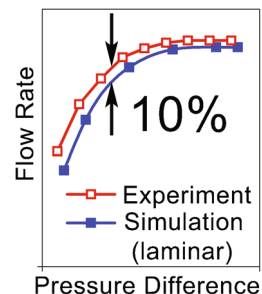
**2124–2131**

The Evolution of Electrospray Generated Droplets is Not Affected
by Ionization Mode
*P. Liigand, A. Heering (Suu), K. Kaupmees, I. Leito, M. Girod,
R. Antoine, and A. Kruve*



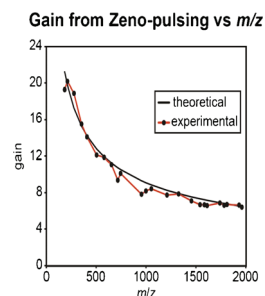
2132-2142

Gas Flow in the Capillary of the Atmosphere-to-Vacuum Interface of Mass Spectrometers
M. Skoblin, A. Chudinov, I. Soulimenkov, V. Brusov, and V. Kozlovskiy



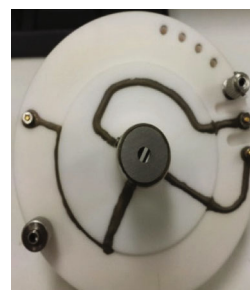
2143-2150

A W-Geometry Ortho-TOF MS with High Resolution and Up to 100% Duty Cycle for MS/MS
I.V. Chernushevich, S.I. Merenbloom, S. Liu, and N. Bloomfield



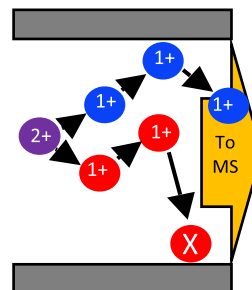
2151-2159

Maximizing Ion Transmission in Differential Mobility Spectrometry
B.B. Schneider, F. Londry, E.G. Nazarov, Y. Kang, and T.R. Covey



2160-2169

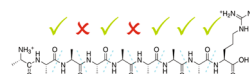
Variables Affecting the Internal Energy of Peptide Ions During Separation by Differential Ion Mobility Spectrometry
B.G. Santiago, M.T. Campbell, and G.L. Glish



2170-2180

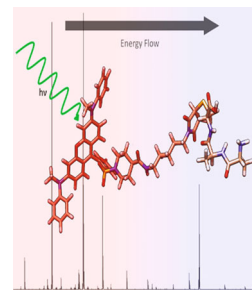
N-Protonated Isomers and Coulombic Barriers to Dissociation of Doubly Protonated Ala₈Arg
F. Haeffner and K.K. Irikura

Agree with expt?

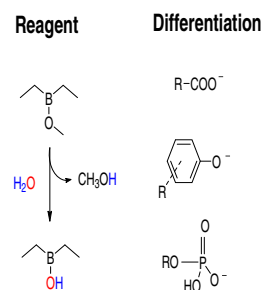


2181–2188

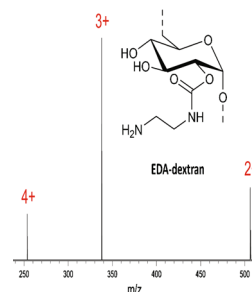
Visible Multiphoton Dissociation of Chromophore-Tagged Peptides
M. Bouakil, A. Kulesza, S. Daly, L. MacAleese, R. Antoine, and P. Dugourd

**2189–2200**

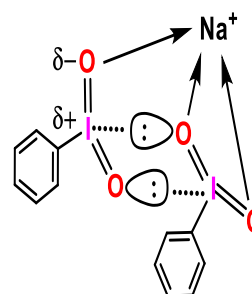
Identification of Carboxylate, Phosphate, and Phenoxide Functionalities in Deprotonated Molecules Related to Drug Metabolites via Ion–Molecule Reactions with water and Diethylhydroxyborane
H. Zhu, X. Ma, J.Y. Kong, M. Zhang, and H.I. Kenttämä

**2201–2208**

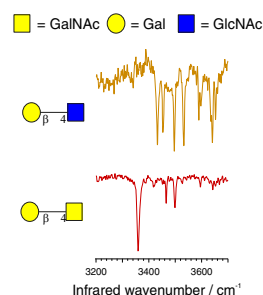
Derivatization of Dextran for Multiply Charged Ion Formation and Electrospray Ionization Time-of-Flight Mass Spectrometric Analysis
J.B. Tapia, H.A.J. Hibbard, and M.M. Reynolds

**2209–2216**

Noncovalent Halogen Bonding as a Mechanism for Gas-Phase Clustering
C. Wegeberg, W.A. Donald, and C.J. McKenzie

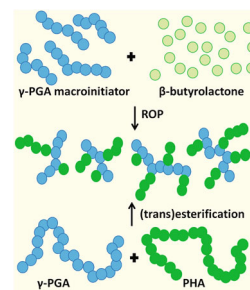
**2217–2222**

Cryogenic Vibrational Spectroscopy Provides Unique Fingerprints for Glycan Identification
C. Masellis, N. Khanal, M.Z. Kamrath, D.E. Clemmer, and T.R. Rizzo

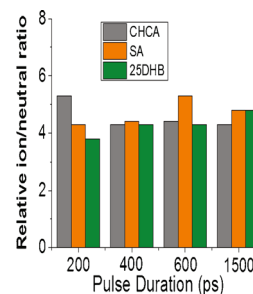


2223–2234

The Synthesis and Structural Characterization of Graft Copolymers Composed of γ -PGA Backbone and Oligoesters Pendant Chains
I. Kwiecień, I. Radecka, M. Kowalczyk, K. Jelonek, A. Orchel, and G. Adamus

**2235–2245**

Laser Pulse Width Dependence and Ionization Mechanism of Matrix-Assisted Laser Desorption/Ionization
S.-P. Liang, I.-C. Lu, S.-T. Tsai, J.-L. Chen, Y.T. Lee, and C.-K. Ni

**2246–2254**

Intramolecular Halogen Atom Coordinated H Transfer via Ion-Neutral Complex in the Gas Phase Dissociation of Protonated Dichlorvos Derivatives
X. Zhang and S. Cheng

