

David H Russell

List of Publications by Year in descending order

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348
papers

14,421
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21215

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12471
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#	ARTICLE	IF	CITATIONS
1	Temperature Regulates Stability, Ligand Binding (Mg ²⁺ and ATP), and Stoichiometry of GroEL-GroES Complexes. <i>Journal of the American Chemical Society</i> , 2022, 144, 2667-2678.	6.6	18
2	Variable-Temperature Native Mass Spectrometry for Studies of Protein Folding, Stabilities, Assembly, and Molecular Interactions. <i>Annual Review of Biophysics</i> , 2022, 51, 63-77.	4.5	18
3	Cupric Ions Selectively Modulate TRAAK-Phosphatidylserine Interactions. <i>Journal of the American Chemical Society</i> , 2022, 144, 7048-7053.	6.6	4
4	Characterization of lipid carbon-carbon double-bond isomerism via ion mobility-mass spectrometry (IMS-MS) combined with cuprous ion-induced fragmentation. <i>International Journal of Mass Spectrometry</i> , 2022, 479, 116889.	0.7	6
5	THE IMS PARADOX: A PERSPECTIVE ON STRUCTURAL ION MOBILITY-MASS SPECTROMETRY. <i>Mass Spectrometry Reviews</i> , 2021, 40, 280-305.	2.8	29
6	A SPECIAL ISSUE DEDICATED TO THE OUTSTANDING SCIENTIFIC CAREER OF PROF. MICHAEL L. GROSS. <i>Mass Spectrometry Reviews</i> , 2021, 40, 161-161.	2.8	0
7	Selective regulation of human TRAAK channels by biologically active phospholipids. <i>Nature Chemical Biology</i> , 2021, 17, 89-95.	3.9	24
8	Editorial: Focus on Ionization Technologies Used in MS: Fundamentals and Applications, Honoring Dr. Sarah Trimpin, Recipient of the 2019 ASMS Biemann Medal. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 616-617.	1.2	0
9	Molecular assemblies of the catalytic domain of SOS with KRas and oncogenic mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
10	Variable-Temperature Electrospray Ionization for Temperature-Dependent Folding/Refolding Reactions of Proteins and Ligand Binding. <i>Analytical Chemistry</i> , 2021, 93, 6924-6931.	3.2	33
11	Thermal Analysis of a Mixture of Ribosomal Proteins by vT-ESI-MS: Toward a Parallel Approach for Characterizing the Stabilitome. <i>Analytical Chemistry</i> , 2021, 93, 8484-8492.	3.2	8
12	Protons Are Fast and Smart; Proteins Are Slow and Dumb: On the Relationship of Electrospray Ionization Charge States and Conformations. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1553-1561.	1.2	17
13	Editorial: Focus on Protein Footprinting, Honoring Michael Gross, Recipient of the 2020 John B. Fenn Award for a Distinguished Contribution in Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1565-1566.	1.2	0
14	Implementing Digital-Waveform Technology for Extended <i>m/z</i> Range Operation on a Native Dual-Quadrupole FT-IM-Orbitrap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2812-2820.	1.2	9
15	Entropy in the Molecular Recognition of Membrane Protein-Lipid Interactions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12218-12224.	2.1	10
16	Native IM-Orbitrap MS: Resolving what was hidden. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 124, 115533.	5.8	33
17	Structural Analysis of 14-3-3- η -Derived Phosphopeptides Using Electron Capture Dissociation Mass Spectrometry, Traveling Wave Ion Mobility Spectrometry, and Molecular Modeling. <i>Journal of Physical Chemistry B</i> , 2020, 124, 461-469.	1.2	5
18	Development of native MS capabilities on an extended mass range Q-TOF MS. <i>International Journal of Mass Spectrometry</i> , 2020, 458, 116451.	0.7	13

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19	First-Principles Collision Cross Section Measurements of Large Proteins and Protein Complexes. <i>Analytical Chemistry</i> , 2020, 92, 11155-11163.	3.2	24
20	Discovery of Potent Charge-Reducing Molecules for Native Ion Mobility Mass Spectrometry Studies. <i>Analytical Chemistry</i> , 2020, 92, 11242-11249.	3.2	21
21	Evidence for Many Unique Solution Structures for Chymotrypsin Inhibitor 2: A Thermodynamic Perspective Derived from vT-ESI-IMS-MS Measurements. <i>Journal of the American Chemical Society</i> , 2020, 142, 17372-17383.	6.6	26
22	Ag ⁺ Ion Binding to Human Metallothionein-2A Is Cooperative and Domain Specific. <i>Analytical Chemistry</i> , 2020, 92, 8923-8932.	3.2	19
23	Molecular Mechanism of ISC Iron-Sulfur Cluster Biogenesis Revealed by High-Resolution Native Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2020, 142, 6018-6029.	6.6	30
24	Structural Analysis of the Effect of a Dual-FLAG Tag on Transthyretin. <i>Biochemistry</i> , 2020, 59, 1013-1022.	1.2	7
25	Tracking the Structural Evolution of 4-Aminobenzoic Acid in the Transition from Solution to the Gas Phase. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2081-2087.	1.2	24
26	Melting of Hemoglobin in Native Solutions as measured by IMS-MS. <i>Analytical Chemistry</i> , 2020, 92, 3440-3446.	3.2	20
27	Collision-Induced Unfolding Studies of Proteins and Protein Complexes using Drift Tube Ion Mobility-Mass Spectrometer. <i>Analytical Chemistry</i> , 2020, 92, 7218-7225.	3.2	18
28	Solvent Mediation of Peptide Conformations: Polyproline Structures in Water, Methanol, Ethanol, and 1-Propanol as Determined by Ion Mobility Spectrometry-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 77-84.	1.2	19
29	Development and Evaluation of a Reverse-Entry Ion Source Orbitrap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 192-198.	1.2	21
30	Intrinsic GTPase Activity of K-RAS Monitored by Native Mass Spectrometry. <i>Biochemistry</i> , 2019, 58, 3396-3405.	1.2	25
31	Topological Characterization of Coordination-Driven Self-assembly Complexes: Applications of Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1654-1662.	1.2	15
32	Topological Analysis of Transthyretin Disassembly Mechanism: Surface-Induced Dissociation Reveals Hidden Reaction Pathways. <i>Analytical Chemistry</i> , 2019, 91, 2345-2351.	3.2	22
33	Substance P in Solution: Trans-to-Cis Configurational Changes of Penultimate Prolines Initiate Non-enzymatic Peptide Bond Cleavages. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 919-931.	1.2	13
34	Focus on Ion Mobility Spectrometry, Honoring Gert von Helden, Martin F. Jarrold, and David E. Clemmer, Recipients of the 2018 John B. Fenn Award for a Distinguished Contribution in Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 893-897.	1.2	0
35	67TH ASMS Conference on Mass Spectrometry and Allied Topics. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1-295.	1.2	0
36	Variable-Temperature ESI-IMS-MS Analysis of Myohemerythrin Reveals Ligand Losses, Unfolding, and a Non-Native Disulfide Bond. <i>Analytical Chemistry</i> , 2019, 91, 6808-6814.	3.2	23

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37	New insights into the metal-induced oxidative degradation pathways of transthyretin. <i>Chemical Communications</i> , 2019, 55, 4091-4094.	2.2	18
38	Hydration of Guanidinium Ions: An Experimental Search for Like-Charged Ion Pairs. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1349-1354.	2.1	9
39	Selective binding of a toxin and phosphatidylinositides to a mammalian potassium channel. <i>Nature Communications</i> , 2019, 10, 1352.	5.8	27
40	Substance P in the Gas Phase: Conformational Changes and Dissociations Induced by Collisional Activation in a Drift Tube. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 932-945.	1.2	8
41	A Focus Honoring Carol Robinson's Election to the National Academy of Sciences. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1-3.	1.2	3
42	Influence of water and enzyme SpnF on the dynamics and energetics of the ambimodal [6+4]/[4+2] cycloaddition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E848-E855.	3.3	57
43	Melting proteins confined in nanodroplets with 10.6 μm light provides clues about early steps of denaturation. <i>Chemical Communications</i> , 2018, 54, 3270-3273.	2.2	18
44	Collision-Induced Unfolding of Partially Metalated Metallothionein-2A: Tracking Unfolding Reactions of Gas-Phase Ions. <i>Analytical Chemistry</i> , 2018, 90, 11856-11862.	3.2	22
45	Conformationally Regulated Peptide Bond Cleavage in Bradykinin. <i>Journal of the American Chemical Society</i> , 2018, 140, 9357-9360.	6.6	25
46	Fourier Transform-Ion Mobility-Orbitrap Mass Spectrometer: A Next-Generation Instrument for Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 10472-10478.	3.2	59
47	Ions from Solution to the Gas Phase: A Molecular Dynamics Simulation of the Structural Evolution of Substance P during Desolvation of Charged Nanodroplets Generated by Electrospray Ionization. <i>Journal of the American Chemical Society</i> , 2017, 139, 2981-2988.	6.6	49
48	Melting Proteins: Evidence for Multiple Stable Structures upon Thermal Denaturation of Native Ubiquitin from Ion Mobility Spectrometry-Mass Spectrometry Measurements. <i>Journal of the American Chemical Society</i> , 2017, 139, 6306-6309.	6.6	86
49	Characterizing the Conformationome: Toward a Structural Understanding of the Proteome. <i>Accounts of Chemical Research</i> , 2017, 50, 556-560.	7.6	53
50	Rapid capillary mixing experiments for the analysis of hydrophobic membrane complexes directly from aqueous lipid bilayer solutions. <i>Analyst</i> , 2017, 142, 310-315.	1.7	2
51	ESI-IM-MS and Collision-Induced Unfolding That Provide Insight into the Linkage-Dependent Interfacial Interactions of Covalently Linked Diubiquitin. <i>Analytical Chemistry</i> , 2017, 89, 10094-10103.	3.2	14
52	Investigation of the mechanism of the SpnF-catalyzed [4+2]-cycloaddition reaction in the biosynthesis of spinosyn A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10408-10413.	3.3	38
53	Defining Noncovalent Ubiquitin Homodimer Interfacial Interactions through Comparisons with Covalently Linked Diubiquitin. <i>Journal of the American Chemical Society</i> , 2016, 138, 16588-16591.	6.6	13
54	Wet Versus Dry Folding of Polyproline. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1037-1047.	1.2	19

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55	Gas and Liquid Phase Diffusivities of Isomeric Metal Complexes Derived from Multifold Ring-Closing Metatheses: Ion Mobility Mass Spectrometry Trumps DOSY NMR. <i>Organometallics</i> , 2016, 35, 2071-2075.	1.1	15
56	Determining Membrane Protein-Lipid Binding Thermodynamics Using Native Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2016, 138, 4346-4349.	6.6	116
57	The Influence of Lipid Bilayer Physicochemical Properties on Gramicidin A Conformer Preferences. <i>Biophysical Journal</i> , 2016, 110, 1826-1835.	0.2	21
58	Long-Lived Intermediates in a Cooperative Two-State Folding Transition. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12040-12046.	1.2	19
59	Following a Folding Transition with Capillary Electrophoresis and Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 10933-10939.	3.2	7
60	Cryogenic Ion Mobility-Mass Spectrometry: Tracking Ion Structure from Solution to the Gas Phase. <i>Accounts of Chemical Research</i> , 2016, 49, 1421-1428.	7.6	37
61	Cis-Trans Isomerization of Pro ⁷ in Oxytocin Regulates Zn ²⁺ Binding. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1376-1382.	1.2	10
62	Increasing Ubiquitin Ion Resistance to Unfolding in the Gas Phase Using Chloride Adduction: Preserving More "Native-Like" Conformations Despite Collisional Activation. <i>Analytical Chemistry</i> , 2016, 88, 5934-5940.	3.2	24
63	Ion Mobility-Mass Spectrometry Reveals the Energetics of Intermediates that Guide Polyproline Folding. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 22-30.	1.2	37
64	Cu ²⁺ -Phosphatidylserine Binding and its Implications for Protein-Membrane Interactions. <i>Biophysical Journal</i> , 2015, 108, 181a.	0.2	0
65	Focus on the 20-Year Anniversary of SEQUEST. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1797-1798.	1.2	6
66	Water-Mediated Dimerization of Ubiquitin Ions Captured by Cryogenic Ion Mobility-Mass Spectrometry. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4947-4951.	2.1	25
67	How Closely Related Are Conformations of Protein Ions Sampled by IM-MS to Native Solution Structures?. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1433-1443.	1.2	93
68	Effects of charge states, charge sites and side chain interactions on conformational preferences of a series of model peptide ions. <i>Analyst</i> , 2015, 140, 6933-6944.	1.7	14
69	Unfolding of Hydrated Alkyl Diammonium Cations Revealed by Cryogenic Ion Mobility-Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2015, 137, 8916-8919.	6.6	18
70	Configurational-Coupled Protonation of Polyproline-7. <i>Journal of the American Chemical Society</i> , 2015, 137, 8680-8683.	6.6	21
71	From Solution to Gas Phase: The Implications of Intramolecular Interactions on the Evaporative Dynamics of Substance P During Electrospray Ionization. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4693-4698.	1.2	18
72	Probing the Electron Capture Dissociation Mass Spectrometry of Phosphopeptides with Traveling Wave Ion Mobility Spectrometry and Molecular Dynamics Simulations. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1004-1013.	1.2	14

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73	Reaction of Human Cd ₇ metallothionein and N-Ethylmaleimide: Kinetic and Structural Insights from Electrospray Ionization Mass Spectrometry. <i>Biochemistry</i> , 2015, 54, 6021-6028.	1.2	20
74	Elucidation of Conformer Preferences for a Hydrophobic Antimicrobial Peptide by Vesicle Capture-Freeze-Drying: A Preparatory Method Coupled to Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 578-583.	3.2	14
75	Fluorescent Probes for Tracking the Transfer of Iron-Sulfur Cluster and Other Metal Cofactors in Biosynthetic Reaction Pathways. <i>Journal of the American Chemical Society</i> , 2015, 137, 390-398.	6.6	21
76	From Solution to the Gas Phase: Factors That Influence Kinetic Trapping of Substance P in the Gas Phase. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14336-14344.	1.2	34
77	Cultivation of lipid-producing bacteria with lignocellulosic biomass: Effects of inhibitory compounds of lignocellulosic hydrolysates. <i>Bioresource Technology</i> , 2014, 161, 162-170.	4.8	50
78	Size-to-Charge Dispersion of Collision-Induced Dissociation Product Ions for Enhancement of Structural Information and Product Ion Identification. <i>Analytical Chemistry</i> , 2014, 86, 4791-4798.	3.2	5
79	Characterizing Intermediates Along the Transition from Polyproline I to Polyproline II Using Ion Mobility Spectrometry-Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2014, 136, 12702-12711.	6.6	91
80	Metal-Induced Conformational Changes of Human Metallothionein-2A: A Combined Theoretical and Experimental Study of Metal-Free and Partially Metalated Intermediates. <i>Journal of the American Chemical Society</i> , 2014, 136, 9499-9508.	6.6	67
81	Evolution of Hydrogen-Bond Networks in Protonated Water Clusters H _n ⁺ (H ₂ O) _n (n = 1 to 120) Studied by Cryogenic Ion Mobility-Mass Spectrometry. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1825-1830.	2.1	31
82	Mechanistic Consequences of Chiral Radical Clock Probes: Analysis of the Mononuclear Non-Heme Iron Enzyme HppE with 2-Hydroxy-3-methylenecyclopropyl Radical Clock Substrates. <i>Journal of the American Chemical Society</i> , 2014, 136, 2944-2947.	6.6	10
83	The Molecular Basis of Sugar Sensing in Drosophila Larvae. <i>Current Biology</i> , 2013, 23, 1466-1471.	1.8	78
84	Combining Chemical Labeling, Bottom-Up and Top-Down Ion-Mobility Mass Spectrometry To Identify Metal-Binding Sites of Partially Metalated Metallothionein. <i>Analytical Chemistry</i> , 2013, 85, 3229-3237.	3.2	43
85	The Periodic Focusing Ion Funnel: Theory, Design, and Experimental Characterization by High-Resolution Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 9543-9548.	3.2	12
86	From Solution to the Gas Phase: Stepwise Dehydration and Kinetic Trapping of Substance P Reveals the Origin of Peptide Conformations. <i>Journal of the American Chemical Society</i> , 2013, 135, 19147-19153.	6.6	133
87	Cis-Trans Isomerizations of Proline Residues Are Key to Bradykinin Conformations. <i>Journal of the American Chemical Society</i> , 2013, 135, 3186-3192.	6.6	89
88	CAPA-gene products in the haematophagous sandfly Phlebotomus papatasi (Scopoli) vector for leishmaniasis disease. <i>Peptides</i> , 2013, 41, 2-7.	1.2	5
89	Sol-Gel-Derived Silver-Nanoparticle-Embedded Thin Film for Mass Spectrometry-Based Biosensing. <i>Langmuir</i> , 2013, 29, 6502-6507.	1.6	35
90	Coupling Supported Lipid Bilayer Electrophoresis with Matrix-Assisted Laser Desorption/Ionization-Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2013, 85, 6047-6052.	3.2	12

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91	Guest Packing Motifs within a Supramolecular Nanocapsule and a Covalent Analogue. <i>Journal of the American Chemical Society</i> , 2013, 135, 4314-4324.	6.6	86
92	Cryogenic Ion Mobility-Mass Spectrometry Captures Hydrated Ions Produced During Electrospray Ionization. <i>Journal of Physical Chemistry A</i> , 2013, 117, 953-961.	1.1	49
93	An Experimental Study of the Solvent-Dependent Self-Assembly/Disassembly and Conformer Preferences of Gramicidin A. <i>Analytical Chemistry</i> , 2013, 85, 7826-7833.	3.2	23
94	Posttranslational modification of CENP-A influences the conformation of centromeric chromatin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11827-11832.	3.3	114
95	Crystal Structure of Mycobacterium tuberculosis Polyketide Synthase 11 (PKS11) Reveals Intermediates in the Synthesis of Methyl-branched Alkylpyrones. <i>Journal of Biological Chemistry</i> , 2013, 288, 16484-16494.	1.6	21
96	Polycarbonates Derived from Glucose via an Organocatalytic Approach. <i>Journal of the American Chemical Society</i> , 2013, 135, 6826-6829.	6.6	117
97	A Facile Method to Synthesize Histones with Posttranslational Modification Mimics. <i>Biochemistry</i> , 2012, 51, 5232-5234.	1.2	40
98	Damping Factor Links Periodic Focusing and Uniform Field Ion Mobility for Accurate Determination of Collision Cross Sections. <i>Analytical Chemistry</i> , 2012, 84, 2818-2824.	3.2	19
99	How Alkali Metal Ion Binding Alters the Conformation Preferences of Gramicidin A: A Molecular Dynamics and Ion Mobility Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 689-696.	1.1	29
100	Neuropeptides of the cotton fleahopper, <i>Pseudatomoscelis seriatus</i> (Reuter). <i>Peptides</i> , 2012, 34, 39-43.	1.2	5
101	Biodegradation of triclosan by a wastewater microorganism. <i>Water Research</i> , 2012, 46, 4226-4234.	5.3	139
102	Imaging secondary metabolism of <i>Streptomyces</i> sp. Mg1 during cellular lysis and colony degradation of competing <i>Bacillus subtilis</i> . <i>Antonie Van Leeuwenhoek</i> , 2012, 102, 435-445.	0.7	50
103	The <i>Caulobacter crescentus</i> phage phiCbK: genomics of a canonical phage. <i>BMC Genomics</i> , 2012, 13, 542.	1.2	85
104	Interkingdom responses of flies to bacteria mediated by fly physiology and bacterial quorum sensing. <i>Animal Behaviour</i> , 2012, 84, 1449-1456.	0.8	83
105	Characterization of Structural Changes of Metallothionein by Ion Mobility-Mass Spectrometry (IM-MS): Metal-Free Vs. Metallated Forms. <i>Biophysical Journal</i> , 2012, 102, 57a.	0.2	0
106	Proteomic Methods for Biomarker Discovery in a Rat Model of Alcohol Steatosis. <i>Methods in Molecular Biology</i> , 2012, 909, 259-277.	0.4	3
107	Evidence for Radical-Mediated Catalysis by HppE: A Study Using Cyclopropyl and Methylene-cyclopropyl Substrate Analogues. <i>Journal of the American Chemical Society</i> , 2012, 134, 16171-16174.	6.6	17
108	Mineralization of Acephate, a Recalcitrant Organophosphate Insecticide Is Initiated by a <i>Pseudomonad</i> in Environmental Samples. <i>PLoS ONE</i> , 2012, 7, e31963.	1.1	21

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109	Ion Mobility-Mass Spectrometry (IM-MS) for Top-Down Proteomics: Increased Dynamic Range Affords Increased Sequence Coverage. <i>Analytical Chemistry</i> , 2012, 84, 3390-3397.	3.2	61
110	Elucidation of chemical structures of pink-red pigments responsible for "pinking"™ in macerated onion (<i>Allium cepa</i> L.) using HPLC-DAD and tandem mass spectrometry. <i>Food Chemistry</i> , 2012, 131, 852-861.	4.2	9
111	The de novo engineering of pyrrolysyl-tRNA synthetase for genetic incorporation of l-phenylalanine and its derivatives. <i>Molecular BioSystems</i> , 2011, 7, 714.	2.9	76
112	Number of Solution States of Bradykinin from Ion Mobility and Mass Spectrometry Measurements. <i>Journal of the American Chemical Society</i> , 2011, 133, 13810-13813.	6.6	142
113	Efficient Electrophoretic Method to Remove Neutral Additives from Protein Solutions Followed by Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2011, 83, 2814-2818.	3.2	4
114	Label-Free Biosensing with Lipid-Functionalized Gold Nanorods. <i>Journal of the American Chemical Society</i> , 2011, 133, 4182-4185.	6.6	72
115	Molecular Dynamics and Ion Mobility Spectrometry Study of Model β -Hairpin Peptide, Trpzip1. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4427-4435.	1.1	23
116	Studies of Histidine As a Suitable Isoelectric Buffer for Tryptic Digestion and Isoelectric Trapping Fractionation Followed by Capillary Electrophoresis-Mass Spectrometry for Proteomic Analysis. <i>Analytical Chemistry</i> , 2011, 83, 8108-8114.	3.2	7
117	Proteomic Analysis of 3T3-L1 Adipocyte Mitochondria during Differentiation and Enlargement. <i>Journal of Proteome Research</i> , 2011, 10, 4692-4702.	1.8	48
118	Conformation and Self-Assembly of the Transmembrane Peptide Gramicidin A: Insights from ion Mobility Spectrometry and Molecular Dynamics. <i>Biophysical Journal</i> , 2011, 100, 387a.	0.2	0
119	Increased ion transmission in IMS: A high resolution, periodic-focusing DC ion guide ion mobility spectrometer. <i>International Journal of Mass Spectrometry</i> , 2011, 301, 166-173.	0.7	29
120	Effect of Cysteic Acid Position on the Negative Ion Fragmentation of Proteolytic Derived Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 31-37.	1.2	2
121	A Mass-Selective Variable-Temperature Drift Tube Ion Mobility-Mass Spectrometer for Temperature Dependent Ion Mobility Studies. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1134-45.	1.2	67
122	Negative Ion Fragmentation of Cysteic Acid Containing Peptides: Cysteic Acid as a Fixed Negative Charge. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1622-1630.	1.2	8
123	Gas-phase ion dynamics in a periodic-focusing DC ion guide (Part II): Discrete transport modes. <i>International Journal of Mass Spectrometry</i> , 2011, 303, 154-163.	0.7	12
124	<i>Saccharomyces cerevisiae</i> THI4p is a suicide thiamine thiazole synthase. <i>Nature</i> , 2011, 478, 542-546.	13.7	149
125	A study of ion-neutral collision cross-section values for low charge states of peptides, proteins, and peptide/protein complexes. <i>International Journal of Mass Spectrometry</i> , 2010, 298, 111-118.	0.7	44
126	A Facile System for Genetic Incorporation of Two Different Noncanonical Amino Acids into One Protein in <i>Escherichia coli</i> . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3211-3214.	7.2	189

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127	High-throughput method for on-target performic acid oxidation of MALDI-deposited samples. <i>Journal of Mass Spectrometry</i> , 2010, 45, 157-166.	0.7	7
128	Amino acid influence on copper binding to peptides: Cysteine versus arginine. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 522-533.	1.2	43
129	Combining isoelectric point-based fractionation, liquid chromatography and mass spectrometry to improve peptide detection and protein identification. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1612-1619.	1.2	17
130	Synthesis, characterization and antibacterial activity of FeIII, CoII, CuII and ZnII complexes probed by transmission electron microscopy. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 1214-1223.	1.5	36
131	Gas-phase ion dynamics in a periodic-focusing DC ion guide. <i>International Journal of Mass Spectrometry</i> , 2010, 296, 36-42.	0.7	25
132	Genetic incorporation of an aliphatic keto-containing amino acid into proteins for their site-specific modifications. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 878-880.	1.0	56
133	Neuropeptidomics of the Mosquito <i>Aedes aegypti</i> . <i>Journal of Proteome Research</i> , 2010, 9, 2006-2015.	1.8	141
134	Factors That Influence Helical Preferences for Singly Charged Gas-Phase Peptide Ions: The Effects of Multiple Potential Charge-Carrying Sites. <i>Journal of Physical Chemistry B</i> , 2010, 114, 809-816.	1.2	31
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