

David E Clemmer

List of Publications by Year in descending order

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268
papers

16,302
citations

13865

67
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21540

114
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276
all docs

276
docs citations

276
times ranked

6931
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Mobility Mass Spectrometry Reveals Rare Sialylated Glycosphingolipid Structures in Human Cerebrospinal Fluid. <i>Molecules</i> , 2022, 27, 743.	3.8	7
2	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.	13.7	18
3	A graphical representation of glycan heterogeneity. <i>Glycobiology</i> , 2022, 32, 201-207.	2.5	4
4	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.	10.0	18
5	Influence of N Terminus Amino Acid on Peptide Cleavage in Solution through Diketopiperazine Formation. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, , .	2.8	0
6	Analysis of Keratinocytic Exosomes from Diabetic and Nondiabetic Mice by Charge Detection Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 8909-8918.	6.5	4
7	Comparison of gaseous ubiquitin ion structures obtained from a solid and solution matrix using ion mobility spectrometry/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8793.	1.5	3
8	Resolving Isomers of Star-Branched Poly(Ethylene Glycols) by IMS-MS Using Multiply Charged Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 21-32.	2.8	6
9	Understanding the Thermal Denaturation of Myoglobin with IMS-MS: Evidence for Multiple Stable Structures and Trapped Pre-equilibrium States. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 64-72.	2.8	16
10	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.	2.8	0
11	Influence of Solvents upon Diketopiperazine Formation of FPG8K. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2952-2959.	2.6	2
12	Heterogeneity of Glycan Processing on Trimeric SARS-CoV-2 Spike Protein Revealed by Charge Detection Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2021, 143, 3959-3966.	13.7	45
13	Gangliosides of Human Glioblastoma Multiforme: A Comprehensive Mapping and Structural Analysis by Ion Mobility Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1249-1257.	2.8	17
14	Solid-state packing dictates the unexpected solubility of aromatic peptides. <i>Cell Reports Physical Science</i> , 2021, 2, 100391.	5.6	10
15	Variable-Temperature Electrospray Ionization for Temperature-Dependent Folding/Refolding Reactions of Proteins and Ligand Binding. <i>Analytical Chemistry</i> , 2021, 93, 6924-6931.	6.5	33
16	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.	6.5	8
17	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.	2.8	17
18	Diketopiperazine Formation from FPGnK (n = 1-9) Peptides: Rates of Structural Rearrangements and Mechanisms. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8107-8116.	2.6	2

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19	Entropy in the Molecular Recognition of Membrane Proteinâ€“Lipid Interactions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12218-12224.	4.6	10
20	Cerebrospinal fluid: Profiling and fragmentation of gangliosides by ion mobility mass spectrometry. <i>Biochimie</i> , 2020, 170, 36-48.	2.6	18
21	Glycoproteomic Analysis of Human Urinary Exosomes. <i>Analytical Chemistry</i> , 2020, 92, 14357-14365.	6.5	12
22	Ion mobility mass spectrometry of human melanoma gangliosides. <i>Biochimie</i> , 2020, 177, 226-237.	2.6	15
23	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.	13.7	26
24	Exosome-Mediated Crosstalk between Keratinocytes and Macrophages in Cutaneous Wound Healing. <i>ACS Nano</i> , 2020, 14, 12732-12748.	14.6	106
25	Melting of Hemoglobin in Native Solutions as measured by IMS-MS. <i>Analytical Chemistry</i> , 2020, 92, 3440-3446.	6.5	20
26	Charge Detection Mass Spectrometry Measurements of Exosomes and other Extracellular Particles Enriched from Bovine Milk. <i>Analytical Chemistry</i> , 2020, 92, 3285-3292.	6.5	32
27	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.	2.8	19
28	Intrinsic GTPase Activity of K-RAS Monitored by Native Mass Spectrometry. <i>Biochemistry</i> , 2019, 58, 3396-3405.	2.5	25
29	Characterizing Thermal Transitions of IgG with Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2438-2445.	2.8	18
30	Untangling Hydrogen Bond Networks with Ion Mobility Spectrometry and Quantum Chemical Calculations: A Case Study on H ⁺ XPGG. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5730-5741.	2.6	2
31	Solution thermochemistry of concanavalin A tetramer conformers measured by variable-temperature ESI-IMS-MS. <i>International Journal of Mass Spectrometry</i> , 2019, 443, 93-100.	1.5	24
32	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.	2.8	13
33	Determination of Gas-Phase Ion Structures of Locally Polar Homopolymers Through High-Resolution Ion Mobility Spectrometryâ€“Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 905-918.	2.8	14
34	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.	6.5	23
35	Dissecting the Components of Sindbis Virus from Arthropod and Vertebrate Hosts: Implications for Infectivity Differences. <i>ACS Infectious Diseases</i> , 2019, 5, 892-902.	3.8	21
36	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.	2.8	8

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37	A microdroplet-accelerated Biginelli reaction: mechanisms and separation of isomers using IMS-MS. <i>Chemical Science</i> , 2019, 10, 4822-4827.	7.4	58
38	Monitoring the stabilities of a mixture of peptides by mass-spectrometry-based techniques. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 73-81.	1.0	3
39	Proteome changes in the aging <i>Drosophila melanogaster</i> head. <i>International Journal of Mass Spectrometry</i> , 2018, 425, 36-46.	1.5	17
40	The intrinsically disordered N-terminal arm of the bromo mosaic virus coat protein specifically recognizes the RNA motif that directs the initiation of viral RNA replication. <i>Nucleic Acids Research</i> , 2018, 46, 324-335.	14.5	7
41	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.	4.1	18
42	Cryogenic IR spectroscopy combined with ion mobility spectrometry for the analysis of human milk oligosaccharides. <i>Analyst, The</i> , 2018, 143, 1846-1852.	3.5	29
43	Multiple solution structures of the disordered peptide indolicidin from IMS-MS analysis. <i>International Journal of Mass Spectrometry</i> , 2018, 427, 52-58.	1.5	1
44	Metal-dependent allosteric activation and inhibition on the same molecular scaffold: the Cu^+ sensor CopY from <i>Streptococcus pneumoniae</i> . <i>Chemical Science</i> , 2018, 9, 105-118.	7.4	27
45	Cooperative Formation of Icosahedral Proline Clusters from Dimers. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 95-102.	2.8	3
46	Electronic Energies Are Not Enough: An Ion Mobility-Aided, Quantum Chemical Benchmark Analysis of H^+ -GPGG Conformers. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 5406-5418.	5.3	7
47	Ion mobility mass spectrometry provides novel insights into the expression and structure of gangliosides in the normal adult human hippocampus. <i>Analyst, The</i> , 2018, 143, 5234-5246.	3.5	27
48	Action and Ion Mobility Spectroscopy of a Shortened Retinal Derivative. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 2152-2159.	2.8	5
49	Conformationally Regulated Peptide Bond Cleavage in Bradykinin. <i>Journal of the American Chemical Society</i> , 2018, 140, 9357-9360.	13.7	25
50	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.	13.7	49
51	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.	13.7	86
52	A Database of Transition-Metal-Coordinated Peptide Cross-Sections: Selective Interaction with Specific Amino Acid Residues. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1293-1303.	2.8	8
53	Glycosaminoglycan Analysis by Cryogenic Messenger-Tagging IR Spectroscopy Combined with IMS-MS. <i>Analytical Chemistry</i> , 2017, 89, 7601-7606.	6.5	53
54	Electrospray ionization ion mobility mass spectrometry provides novel insights into the pattern and activity of fetal hippocampus gangliosides. <i>Biochimie</i> , 2017, 139, 81-94.	2.6	25

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55	Delineation of disease phenotypes associated with esophageal adenocarcinoma by MALDI-HMS-MS analysis of serum N-linked glycans. <i>Analyst, The</i> , 2017, 142, 1525-1535.	3.5	12
56	Characterizing the Conformationome: Toward a Structural Understanding of the Proteome. <i>Accounts of Chemical Research</i> , 2017, 50, 556-560.	15.6	53
57	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.	6.5	14
58	Cryogenic Vibrational Spectroscopy Provides Unique Fingerprints for Glycan Identification. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2217-2222.	2.8	77
59	Characterization of lectin binding affinities via direct LC-MS profiling: implications for glycopeptide enrichment and separation strategies. <i>Analyst, The</i> , 2017, 142, 65-74.	3.5	19
60	Conformations of Prolyl Peptide Bonds in the Bradykinin 1-5 Fragment in Solution and in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2016, 138, 9224-9233.	13.7	57
61	Wet Versus Dry Folding of Polyproline. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1037-1047.	2.8	19
62	Electrospray Ionization Ion Mobility Mass Spectrometry of Human Brain Gangliosides. <i>Analytical Chemistry</i> , 2016, 88, 5166-5178.	6.5	65
63	Long-Lived Intermediates in a Cooperative Two-State Folding Transition. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12040-12046.	2.6	19
64	Following a Folding Transition with Capillary Electrophoresis and Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 10933-10939.	6.5	7
65	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.	2.8	10
66	Multidimensional Analysis of 16 Glucose Isomers by Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 2335-2344.	6.5	65
67	Examining the Influence of Phosphorylation on Peptide Ion Structure by Ion Mobility Spectrometry-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 786-794.	2.8	28
68	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.	2.8	37
69	Hybrid ion mobility and mass spectrometry as a separation tool. <i>Journal of Chromatography A</i> , 2016, 1439, 3-25.	3.7	81
70	Frontispiece: Direct Measurement of the Isomerization Barrier of the Isolated Retinal Chromophore. <i>Angewandte Chemie - International Edition</i> , 2015, 54, .	13.8	0
71	Application of ion mobility tandem mass spectrometry to compositional and structural analysis of glycopeptides extracted from the urine of a patient diagnosed with Schindler disease. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1929-1937.	1.5	20
72	Conformational landscape and pathway of disulfide bond reduction of human alpha defensin. <i>Protein Science</i> , 2015, 24, 1264-1271.	7.6	7

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73	Direct Measurement of the Isomerization Barrier of the Isolated Retinal Chromophore. <i>Journal of Physics: Conference Series</i> , 2015, 635, 032034.	0.4	0
74	Direct Measurement of the Isomerization Barrier of the Isolated Retinal Chromophore. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4748-4752.	13.8	18
75	Resolution of Stepwise Cooperativities of Copper Binding by the Homotetrameric Copper-Sensitive Operon Repressor (CsoR): Impact on Structure and Stability. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12795-12799.	13.8	11
76	Water-Mediated Dimerization of Ubiquitin Ions Captured by Cryogenic Ion Mobility-Mass Spectrometry. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4947-4951.	4.6	25
77	Gas molecule scattering & ion mobility measurements for organic macro-ions in He versus N ₂ environments. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15019-15029.	2.8	73
78	Investigating carbohydrate isomers by IMS-CID-IMS-MS: precursor and fragment ion cross-sections. <i>Analyst</i> , 2015, 140, 6922-6932.	3.5	62
79	On the Split Personality of Penultimate Proline. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 444-452.	2.8	12
80	Populations of Metal-Glycan Structures Influence MS Fragmentation Patterns. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 25-35.	2.8	23
81	An IMS-IMS threshold method for semi-quantitative determination of activation barriers: Interconversion of proline cis-trans forms in triply protonated bradykinin. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 646-654.	1.5	41
82	Selected Overtone Mobility Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 5132-5138.	6.5	16
83	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.	13.7	18
84	Configurational-Coupled Protonation of Polyproline-7. <i>Journal of the American Chemical Society</i> , 2015, 137, 8680-8683.	13.7	21
85	Penultimate Proline in Neuropeptides. <i>Analytical Chemistry</i> , 2015, 87, 8466-8472.	6.5	14
86	Glycopeptide Site Heterogeneity and Structural Diversity Determined by Combined Lectin Affinity Chromatography/IMS/CID/MS Techniques. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1092-1102.	2.8	42
87	Position of Proline Mediates the Reactivity of S-Palmitoylation. <i>ACS Chemical Biology</i> , 2015, 10, 2529-2536.	3.4	4
88	Photosynthesis of a Combinatorial Peptide Library in the Gas Phase. <i>Analytical Chemistry</i> , 2015, 87, 9384-9388.	6.5	3
89	Infrared Spectroscopy of Mobility-Selected H ⁺ -Gly-Pro-Gly-Gly (GPGG). <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1444-1454.	2.8	65
90	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.	2.6	34

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91	Negatively-charged helices in the gas phase. <i>Chemical Communications</i> , 2014, 50, 8849.	4.1	6
92	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.	13.7	91
93	Solution Dependence of the Collisional Activation of Ubiquitin $[M + 7H]^{7+}$ Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 2000-2008.	2.8	46
94	Electrospray Ionization Mechanisms for Large Polyethylene Glycol Chains Studied Through Tandem Ion Mobility Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1332-1345.	2.8	48
95	Evidence for Two New Solution States of Ubiquitin by IMS-MS Analysis. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3498-3506.	2.6	46
96	Intrinsic size parameters for palmitoylated and carboxyamidomethylated peptides. <i>International Journal of Mass Spectrometry</i> , 2014, 368, 6-14.	1.5	13
97	Ion Mobility Analysis of Molecular Dynamics. <i>Annual Review of Physical Chemistry</i> , 2014, 65, 175-196.	10.8	163
98	A Database of Alkaline-Earth-Coordinated Peptide Cross Sections: Insight into General Aspects of Structure. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 768-779.	2.8	19
99	Overtone Mobility Spectrometry: Part 5. Simulations and Analytical Expressions Describing Overtone Limits. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 615-621.	2.8	9
100	Ion Trapping for Ion Mobility Spectrometry Measurements in a Cyclical Drift Tube. <i>Analytical Chemistry</i> , 2013, 85, 7003-7008.	6.5	58
101	Gridless Overtone Mobility Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 10174-10179.	6.5	21
102	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.	13.7	133
103	<i>Cis</i> \leftrightarrow <i>Trans</i> Isomerizations of Proline Residues Are Key to Bradykinin Conformations. <i>Journal of the American Chemical Society</i> , 2013, 135, 3186-3192.	13.7	89
104	The binding of Ca^{2+} , Co^{2+} , Ni^{2+} , Cu^{2+} , and Zn^{2+} cations to angiotensin I determined by mass spectrometry based techniques. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 318-325.	1.5	19
105	Oscillations of Chiral Preference in Proline Clusters. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1035-1041.	2.5	16
106	Effects of $Fe(II)/H_2O_2$ Oxidation on Ubiquitin Conformers Measured by Ion Mobility-Mass Spectrometry. <i>Journal of Physical Chemistry B</i> , 2013, 117, 164-173.	2.6	9
107	Ion Mobility-Mass Spectrometry Analysis of Serum N-linked Glycans from Esophageal Adenocarcinoma Phenotypes. <i>Journal of Proteome Research</i> , 2012, 11, 6102-6110.	3.7	46
108	A database of alkali metal-containing peptide cross sections: Influence of metals on size parameters for specific amino acids. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 35-45.	1.5	31

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109	A celebration of the scientific and personal contributions of Peter B. Armentrout. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 4-5.	1.5	1
110	Mannose7 Glycan Isomer Characterization by IMS-MS/MS Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 2158-2166.	2.8	63
111	Conformation Types of Ubiquitin [M+8H] ⁸⁺ Ions from Water:Methanol Solutions: Evidence for the N and A States in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3344-3352.	2.6	87
112	Collisional Activation of [14Pro+2H] ²⁺ Clusters: Chiral Dependence of Evaporation and Fission Processes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7644-7651.	2.6	7
113	Chirality and Packing in Small Proline Clusters. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11442-11446.	2.6	12
114	Delineating Diseases by IMS-MS Profiling of Serum N-linked Glycans. <i>Journal of Proteome Research</i> , 2012, 11, 576-585.	3.7	48
115	Extracted fragment ion mobility distributions: A new method for complex mixture analysis. <i>International Journal of Mass Spectrometry</i> , 2012, 309, 154-160.	1.5	40
116	Analyzing a mixture of disaccharides by IMS-VUVPD-MS. <i>International Journal of Mass Spectrometry</i> , 2012, 309, 161-167.	1.5	61
117	Biomolecular condensation via ultraviolet excitation in vacuo. <i>International Journal of Mass Spectrometry</i> , 2012, 316-318, 6-11.	1.5	13
118	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.	13.7	142
119	Transitions between Elongated Conformations of Ubiquitin [M+11H] ¹¹⁺ Enhance Hydrogen/Deuterium Exchange. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4509-4515.	2.6	26
120	Shift Reagents for Multidimensional Ion Mobility Spectrometry-Mass Spectrometry Analysis of Complex Peptide Mixtures: Evaluation of 18-Crown-6 Ether Complexes. <i>Analytical Chemistry</i> , 2011, 83, 5377-5385.	6.5	27
121	Controlled Formation of Peptide Bonds in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2011, 133, 15834-15837.	13.7	30
122	Using Ion Mobility Data to Improve Peptide Identification: Intrinsic Amino Acid Size Parameters. <i>Journal of Proteome Research</i> , 2011, 10, 2318-2329.	3.7	58
123	Overtone Mobility Spectrometry: Part 4. OMS-OMS Analyses of Complex Mixtures. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 2049-60.	2.8	18
124	Overtone Mobility Spectrometry: Part 3. On the Origin of Peaks. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 804-816.	2.8	19
125	Complexation of Amino Compounds by 18C6 Improves Selectivity by IMS-IMS-MS: Application to Petroleum Characterization. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 817-27.	2.8	15
126	Differentiation of Compact and Extended Conformations of Di-Ubiquitin Conjugates with Lysine-Specific Isopeptide Linkages by Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1463-1471.	2.8	8

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127	Biologically-Inspired Peptide Reagents for Enhancing IMS-MS Analysis of Carbohydrates. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1602-1609.	2.8	12
128	An Ion Mobility/Ion Trap/Photodissociation Instrument for Characterization of Ion Structure. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1477-85.	2.8	72
129	A Scanning Frequency Mode for Ion Cyclotron Mobility Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 8266-8271.	6.5	38
130	Isotopic Effect on Ion Mobility and Separation of Isotopomers by High-Field Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 8047-8051.	6.5	36
131	Insights into aging through measurements of the <i>Drosophila</i> proteome as a function of temperature. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 584-590.	4.6	7
132	Gas-phase conformation-specific photofragmentation of proline-containing peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1455-1465.	2.8	30
133	Identification of <i>Chlamydia trachomatis</i> Outer Membrane Complex Proteins by Differential Proteomics. <i>Journal of Bacteriology</i> , 2010, 192, 2852-2860.	2.2	70
134	Evidence for a Quasi-Equilibrium Distribution of States for Bradykinin $[M + 3H]^{3+}$ Ions in the Gas Phase. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7777-7783.	2.6	84
135	Determination of Cross Sections by Overtone Mobility Spectrometry: Evidence for Loss of Unstable Structures at Higher Overtones. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12406-12415.	2.6	32
136	Combinatorial Libraries of Synthetic Peptides as a Model for Shotgun Proteomics. <i>Analytical Chemistry</i> , 2010, 82, 6559-6568.	6.5	16
137	Snapshot, Conformation, and Bulk Fragmentation. , 2010, , 215-235.		1
138	Overtone mobility spectrometry: Part 1. Experimental observations. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 729-737.	2.8	70
139	Protein oligomers frozen in time. <i>Nature Chemistry</i> , 2009, 1, 257-258.	13.6	11
140	Profiling of phospholipids and related lipid structures using multidimensional ion mobility spectrometry-mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2009, 287, 58-69.	1.5	56
141	Developing IMS-MS for rapid characterization of abundant proteins in human plasma. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 149-160.	1.5	34
142	Overtone mobility spectrometry: Part 2. Theoretical considerations of resolving power. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 738-750.	2.8	44
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