

David E Clemmer

List of Publications by Year in descending order

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268
papers

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13865

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276
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276
docs citations

276
times ranked

6931
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Mobility Measurements and their Applications to Clusters and Biomolecules. <i>Journal of Mass Spectrometry</i> , 1997, 32, 577-592.	1.6	671
2	Naked Protein Conformations: Cytochrome c in the Gas Phase. <i>Journal of the American Chemical Society</i> , 1995, 117, 10141-10142.	13.7	466
3	Biomolecule Analysis by Ion Mobility Spectrometry. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 293-327.	5.4	437
4	Protein Structure in Vacuo: Gas-Phase Conformations of BPTI and Cytochrome c. <i>Journal of the American Chemical Society</i> , 1997, 119, 2240-2248.	13.7	409
5	Three-Dimensional Ion Mobility/TOFMS Analysis of Electrosprayed Biomolecules. <i>Analytical Chemistry</i> , 1998, 70, 2236-2242.	6.5	330
6	Anhydrous Protein Ions. <i>Chemical Reviews</i> , 1999, 99, 3037-3080.	47.7	314
7	Activation of hydrogen and methane by thermalized FeO ⁺ in the gas phase as studied by multiple mass spectrometric techniques. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 161, 175-191.	1.8	291
8	High-resolution ion mobility measurements. <i>Review of Scientific Instruments</i> , 1997, 68, 1122-1129.	1.3	286
9	An IMS~IMS Analogue of MS~MS. <i>Analytical Chemistry</i> , 2006, 78, 4161-4174.	6.5	251
10	Disulfide-Intact and -Reduced Lysozyme in the Gas Phase: Conformations and Pathways of Folding and Unfolding. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3891-3900.	2.6	224
11	Conformer-dependent proton-transfer reactions of ubiquitin ions. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 954-961.	2.8	219
12	ESI/Ion Trap/Ion Mobility/Time-of-Flight Mass Spectrometry for Rapid and Sensitive Analysis of Biomolecular Mixtures. <i>Analytical Chemistry</i> , 1999, 71, 291-301.	6.5	193
13	H/D Exchange Levels of Shape-Resolved Cytochrome c Conformers in the Gas Phase. <i>Journal of the American Chemical Society</i> , 1997, 119, 3558-3566.	13.7	192
14	A database of 660 peptide ion cross sections: Use of intrinsic size parameters for bona fide predictions of cross sections. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 1188-1211.	2.8	191
15	IMS~IMS and IMS~IMS~IMS/MS for Separating Peptide and Protein Fragment Ions. <i>Analytical Chemistry</i> , 2006, 78, 2802-2809.	6.5	183
16	Mapping the human plasma proteome by SCX-LC-IMS-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1249-1264.	2.8	171
17	A computational approach toward label-free protein quantification using predicted peptide detectability. <i>Bioinformatics</i> , 2006, 22, e481-e488.	4.1	166
18	Ion Mobility Analysis of Molecular Dynamics. <i>Annual Review of Physical Chemistry</i> , 2014, 65, 175-196.	10.8	163

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19	Reactions of fourthâ€period metal ions (Ca+âˆZn+) with O2: Metalâ€oxide ion bond energies. <i>Journal of Chemical Physics</i> , 1990, 93, 2676-2691.	3.0	162
20	Ion Mobility Spectrometry/Mass Spectrometry Snapshots for Assessing the Molecular Compositions of Complex Polymeric Systems. <i>Analytical Chemistry</i> , 2008, 80, 9073-9083.	6.5	162
21	Monitoring Structural Changes of Proteins in an Ion Trap over $\sim 10^4$ to 200 ms: Unfolding Transitions in Cytochrome c Ions. <i>Analytical Chemistry</i> , 2001, 73, 6000-6007.	6.5	154
22	Structural Transitions of Electrosprayed Ubiquitin Ions Stored in an Ion Trap over ~ 10 ms to 30 s. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9976-9982.	2.5	149
23	Gas-Phase Separations of Electrosprayed Peptide Libraries. <i>Analytical Chemistry</i> , 1999, 71, 3918-3927.	6.5	148
24	Influence of solvent composition and capillary temperature on the conformations of electrosprayed ions: unfolding of compact ubiquitin conformers from pseudonative and denatured solutions. <i>International Journal of Mass Spectrometry</i> , 1999, 185-187, 37-47.	1.5	146
25	Profiling of Human Serum Glycans Associated with Liver Cancer and Cirrhosis by IMS-MS. <i>Journal of Proteome Research</i> , 2008, 7, 1109-1117.	3.7	143
26	Evidence for Many Resolvable Structures within Conformation Types of Electrosprayed Ubiquitin Ions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7017-7021.	2.6	142
27	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
28	Conversion of CH ₄ to CH ₃ OH: Reactions of CoO ⁺ with CH ₄ and D ₂ , Co ⁺ with CH ₃ OD and D ₂ O, and Co ⁺ (CH ₃ OD) with Xe. <i>Journal of the American Chemical Society</i> , 1994, 116, 7815-7826.	13.7	141
29	High-order structure and dissociation of gaseous peptide aggregates that are hidden in mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 743-759.	2.8	141
30	Toward Plasma Proteome Profiling with Ion Mobility-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2006, 5, 2977-2984.	3.7	139
31	High-Resolution Ion Cyclotron Mobility Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 1482-1487.	6.5	136
32	Resolving Oligomers from Fully Grown Polymers with IMS-MS. <i>Analytical Chemistry</i> , 2007, 79, 7965-7974.	6.5	135
33	Multidimensional separations of complex peptide mixtures: a combined high-performance liquid chromatography/ion mobility/time-of-flight mass spectrometry approach. <i>International Journal of Mass Spectrometry</i> , 2001, 212, 97-109.	1.5	133
34	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
35	Resolving and assigning N-linked glycan structural isomers from ovalbumin by IMS-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1706-1715.	2.8	130
36	Characterizing Oligosaccharides Using Injected-Ion Mobility/Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 2504-2509.	6.5	129

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37	Physical and chemical evidence for metallofullerenes with metal atoms as part of the cage. <i>Nature</i> , 1994, 372, 248-250.	27.8	122
38	Evidence for unfolding and refolding of gas-phase cytochrome c ions in a Paul trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1493-1497.	2.8	119
39	Coupling Desorption Electrospray Ionization with Ion Mobility/Mass Spectrometry for Analysis of Protein Structure: A Evidence for Desorption of Folded and Denatured States. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5045-5051.	2.6	116
40	An Ion Trap Interface for ESI Ion Mobility Experiments. <i>Analytical Chemistry</i> , 1997, 69, 4156-4161.	6.5	112
41	Development of High-Sensitivity Ion Trap Ion Mobility Spectrometry Time-of-Flight Techniques: A High-Throughput Nano-LC-IMS-TOF Separation of Peptides Arising from a <i>Drosophila</i> Protein Extract. <i>Analytical Chemistry</i> , 2003, 75, 5137-5145.	6.5	111
42	Magic Number Clusters of Serine in the Gas Phase. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8092-8096.	2.6	109
43	Mobility Labeling for Parallel CID of Ion Mixtures. <i>Analytical Chemistry</i> , 2000, 72, 2737-2740.	6.5	106
44	Exosome-Mediated Crosstalk between Keratinocytes and Macrophages in Cutaneous Wound Healing. <i>ACS Nano</i> , 2020, 14, 12732-12748.	14.6	106
45	Reaction of Sc ⁺ , Ti ⁺ , and V ⁺ with CO. MC ⁺ and MO ⁺ bond energies. <i>Journal of Chemical Physics</i> , 1991, 95, 3387-3393.	3.0	104
46	Gas-phase separations of protease digests. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 1213-1216.	2.8	104
47	Resolution and structural transitions of elongated states of ubiquitin. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 322-331.	2.8	99
48	Resolving Isomeric Peptide Mixtures: A Combined HPLC/Ion Mobility-TOFMS Analysis of a 4000-Component Combinatorial Library. <i>Analytical Chemistry</i> , 2002, 74, 26-36.	6.5	95
49	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
50	<i>Cis</i> and <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
51	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
52	Gas-Phase DNA: Oligothymidine Ion Conformers. <i>Journal of the American Chemical Society</i> , 1997, 119, 9051-9052.	13.7	86
53	Transfer of Structural Elements from Compact to Extended States in Unsolvated Ubiquitin. <i>Journal of the American Chemical Society</i> , 2006, 128, 11713-11719.	13.7	86
54	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

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55	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
56	On the Dynamics of Fragment Isomerization in Collision-Induced Dissociation of Peptides. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1286-1293.	2.5	82
57	Hybrid ion mobility and mass spectrometry as a separation tool. <i>Journal of Chromatography A</i> , 2016, 1439, 3-25.	3.7	81
58	Reaction of Zn ⁺ with NO ₂ . The gas-phase thermochemistry of ZnO. <i>Journal of Chemical Physics</i> , 1991, 95, 7263-7268.	3.0	80
59	Volumes of Individual Amino Acid Residues in Gas-Phase Peptide Ions. <i>Journal of the American Chemical Society</i> , 1999, 121, 4031-4039.	13.7	80
60	Ion Trap/Ion Mobility/Quadrupole/Time-of-Flight Mass Spectrometry for Peptide Mixture Analysis. <i>Analytical Chemistry</i> , 2001, 73, 177-184.	6.5	80
61	Temperature-dependent H/D exchange of compact and elongated cytochrome c ions in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 506-517.	2.8	79
62	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
63	Large Anhydrous Polyalanine Ions: Evidence for Extended Helices and Onset of a More Compact State. <i>Journal of the American Chemical Society</i> , 2001, 123, 1490-1498.	13.7	76
64	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
65	A Nano-Scale Barrel and Cube: A Transition Metal-Mediated Self-Assembly of CpCoCb-Derived Ligand Scaffolds. <i>Journal of the American Chemical Society</i> , 2001, 123, 3818-3819.	13.7	72
66	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
67	Intrinsic Amino Acid Size Parameters from a Series of 113 Lysine-Terminated Tryptic Digest Peptide Ions. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1203-1207.	2.6	70
68	Overtone mobility spectrometry: Part 1. Experimental observations. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 729-737.	2.8	70
69	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
70	Cis-Trans Signatures of Proline-Containing Tryptic Peptides in the Gas Phase. <i>Analytical Chemistry</i> , 2002, 74, 1946-1951.	6.5	69
71	A Split-Field Drift Tube for Separation and Efficient Fragmentation of Biomolecular Ions. <i>Analytical Chemistry</i> , 2003, 75, 6202-6208.	6.5	67
72	Coupling Capillary Electrochromatography with Electrospray Fourier Transform Mass Spectrometry for Characterizing Complex Oligosaccharide Pools. <i>Analytical Chemistry</i> , 2003, 75, 1684-1690.	6.5	67

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73	Mapping the Proteome of <i>Drosophila melanogaster</i> : A Analysis of Embryos and Adult Heads by LC-IMS-MS Methods. <i>Journal of Proteome Research</i> , 2005, 4, 1223-1237.	3.7	65
74	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
75	Electrospray Ionization Ion Mobility Mass Spectrometry of Human Brain Gangliosides. <i>Analytical Chemistry</i> , 2016, 88, 5166-5178.	6.5	65
76	Multidimensional Analysis of 16 Glucose Isomers by Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 2335-2344.	6.5	65
77	Intrinsic Size Parameters for Val, Ile, Leu, Gln, Thr, Phe, and Trp Residues from Ion Mobility Measurements of Polyamino Acid Ions. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8780-8785.	2.6	64
78	Coupling Ion Mobility Separations, Collisional Activation Techniques, and Multiple Stages of MS for Analysis of Complex Peptide Mixtures. <i>Analytical Chemistry</i> , 2002, 74, 992-1006.	6.5	64
79	Chiral enrichment of serine via formation, dissociation, and soft-landing of octameric cluster ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1360-1365.	2.8	63
80	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
81	Investigating carbohydrate isomers by IMS-CID-IMS-MS: precursor and fragment ion cross-sections. <i>Analyst</i> , 2015, 140, 6922-6932.	3.5	62
82	Gas-phase thermochemistry of the group 3 dioxides: ScO ₂ , YO ₂ and LaO ₂ . <i>Chemical Physics Letters</i> , 1992, 190, 259-265.	2.6	61
83	Developing liquid chromatography ion mobility mass spectrometry techniques. <i>Expert Review of Proteomics</i> , 2005, 2, 553-565.	3.0	61
84	Analyzing a mixture of disaccharides by IMS-VUVPD-MS. <i>International Journal of Mass Spectrometry</i> , 2012, 309, 161-167.	1.5	61
85	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
86	Ion Trapping for Ion Mobility Spectrometry Measurements in a Cyclical Drift Tube. <i>Analytical Chemistry</i> , 2013, 85, 7003-7008.	6.5	58
87	A microdroplet-accelerated Biginelli reaction: mechanisms and separation of isomers using IMS-MS. <i>Chemical Science</i> , 2019, 10, 4822-4827.	7.4	58
88	Charge-remote fragmentation of lithiated fatty acids on a TOF-TOF instrument using matrix-ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1967-1972.	2.8	57
89	Conformations of Prolyl-ε-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
90	Conformational studies of Zn-Ligand-Hexose diastereomers using ion mobility measurements and density functional theory calculations. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 284-293.	2.8	56

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91	Nanoflow LC/Ion Mobility/CID/TOF for Proteomics: A Analysis of a Human Urinary Proteome. Journal of Proteome Research, 2003, 2, 589-597.	3.7	56
92	Exploring Crown Ethers as Shift Reagents for Ion Mobility Spectrometry. Analytical Chemistry, 2006, 78, 6792-6800.	6.5	56
93	Profiling of phospholipids and related lipid structures using multidimensional ion mobility spectrometry-mass spectrometry. International Journal of Mass Spectrometry, 2009, 287, 58-69.	1.5	56
94	Formation of peptide aggregates during ESI: Size, charge, composition, and contributions to noise. Journal of the American Society for Mass Spectrometry, 2001, 12, 1020-1035.	2.8	54
95	Protein Expression in a Drosophila Model of Parkinson's Disease. Journal of Proteome Research, 2007, 6, 348-357.	3.7	53
96	Glycosaminoglycan Analysis by Cryogenic Messenger-Tagging IR Spectroscopy Combined with IMS-MS. Analytical Chemistry, 2017, 89, 7601-7606.	6.5	53
97	Characterizing the Conformationome: Toward a Structural Understanding of the Proteome. Accounts of Chemical Research, 2017, 50, 556-560.	15.6	53
98	Quantitative Proteomics of a Presymptomatic A53T α -Synuclein Drosophila Model of Parkinson Disease. Molecular and Cellular Proteomics, 2008, 7, 1191-1203.	3.8	52
99	Structures and Isomerization of LaCn+ Clusters. The Journal of Physical Chemistry, 1995, 99, 11376-11386.	2.9	51
100	Development of high throughput dispersive LC-ion mobility-TOFMS techniques for analysing the human plasma proteome. Briefings in Functional Genomics & Proteomics, 2004, 3, 177-186.	3.8	51
101	Metal-Containing Carbon Clusters: Structures, Isomerization, and Formation of NbCn+ Clusters. Journal of the American Chemical Society, 1995, 117, 8841-8850.	13.7	49
102	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. Journal of the American Chemical Society, 2017, 139, 2981-2988.	13.7	49
103	Dissociation of different conformations of ubiquitin ions. Journal of the American Society for Mass Spectrometry, 2002, 13, 719-723.	2.8	48
104	Assessing the Peak Capacity of IMS-IMS Separations of Tryptic Peptide Ions in He at 300 K. Analytical Chemistry, 2007, 79, 515-522.	6.5	48
105	Delineating Diseases by IMS-MS Profiling of Serum N-linked Glycans. Journal of Proteome Research, 2012, 11, 576-585.	3.7	48
106	Electrospray Ionization Mechanisms for Large Polyethylene Glycol Chains Studied Through Tandem Ion Mobility Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 1332-1345.	2.8	48
107	Fast and accurate identification of semi-tryptic peptides in shotgun proteomics. Bioinformatics, 2008, 24, 102-109.	4.1	47
108	Gas-phase self-assembly of endohedral metallofullerenes. Nature, 1994, 367, 718-720.	27.8	46

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109	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
110	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
111	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
112	Peer Reviewed: Injected-Ion Mobility Analysis of Biomolecules. <i>Analytical Chemistry</i> , 1997, 69, 728A-735A.	6.5	45
113	Prediction of peptide ion mobilities via a priori calculations from intrinsic size parameters of amino acid residues. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 885-888.	2.8	45
114	Do Homochiral Aggregates Have an Entropic Advantage?. <i>Journal of Physical Chemistry B</i> , 2005, 109, 440-444.	2.6	45
115	Proteome Profiling for Assessing Diversity: Analysis of Individual Heads of <i>Drosophila melanogaster</i> Using LC-Ion Mobility-MS. <i>Journal of Proteome Research</i> , 2005, 4, 1238-1247.	3.7	45
116	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
117	Anhydrous Polyproline Helices and Globules. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4885-4898.	2.6	44
118	DL-Proline. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2005, 61, o506-o508.	0.4	44
119	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
120	Formation of Nanometer-Scale Serine Clusters by Sonic Spray. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6105-6111.	2.6	43
121	Spontaneous Anti-Resolution in Heterochiral Clusters of Serine. <i>Journal of the American Chemical Society</i> , 2004, 126, 4110-4111.	13.7	42
122	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
123	Quantifying Peptides in Isotopically Labeled Protease Digests by Ion Mobility/Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 950-958.	6.5	41
124	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
125	The gas-phase thermochemistry of TiH. <i>Journal of Chemical Physics</i> , 1991, 95, 1228-1233.	3.0	40
126	Gas-phase thermochemistry of VH and CrH. <i>Journal of Chemical Physics</i> , 1993, 98, 4929-4936.	3.0	40

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127	Prediction of Peptide Ion Collision Cross Sections from Topological Molecular Structure and Amino Acid Parameters. <i>Analytical Chemistry</i> , 2002, 74, 1360-1370.	6.5	40
128	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
129	Metal-Mediated Peptide Ion Conformations in the Gas Phase. <i>Journal of Physical Chemistry B</i> , 2000, 104, 4545-4551.	2.6	39
130	Collision-Induced Dissociation of Mobility-Separated Ions Using an Orifice-Skimmer Cone at the Back of a Drift Tube. <i>Analytical Chemistry</i> , 2001, 73, 3549-3555.	6.5	39
131	Gas-phase separations of complex tryptic peptide mixtures. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 234-245.	1.5	39
132	Nanoflow LC/IMS-MS and LC/IMS-CID/MS of protein mixtures. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1341-1353.	2.8	38
133	Development of a high-throughput IMS-IMS-MS approach for analyzing mixtures of biomolecules. <i>Journal of Proteomics</i> , 2008, 71, 318-331.	2.4	38
134	A Scanning Frequency Mode for Ion Cyclotron Mobility Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 8266-8271.	6.5	38
135	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
136	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
137	Protein Expression in the Striatum and Cortex Regions of the Brain for a Mouse Model of Huntington's Disease. <i>Journal of Proteome Research</i> , 2007, 6, 3134-3142.	3.7	35
138	Compact α ' Extended Helix Transitions of Polyalanine in Vacuo. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2111-2117.	2.6	34
139	Developing IMS-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
140	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
141	Structures and Formation of Small LaCn+ Metallofullerenes. <i>The Journal of Physical Chemistry</i> , 1994, 98, 12819-12821.	2.9	33
142	Bonding of Metals to Carbon Rings: LaCn+ Isomers with La+ Inserted and Attached to the Ring. <i>Journal of the American Chemical Society</i> , 1994, 116, 5971-5972.	13.7	33
143	Chirally Directed Formation of Nanometer-Scale Proline Clusters. <i>Journal of the American Chemical Society</i> , 2006, 128, 10833-10839.	13.7	33
144	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

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145	Lifetime Proteomic Profiling of an A30P \pm -Synuclein <i>Drosophila</i> Model of Parkinson's Disease. <i>Journal of Proteome Research</i> , 2007, 6, 3729-3738.	3.7	32
146	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
147	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
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