

David H Russell

List of Publications by Year in descending order

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348
papers

14,421
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18465

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381
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times ranked

11127
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-Selected (2~10 nm) Gold Nanoparticles for Matrix Assisted Laser Desorption Ionization of Peptides. <i>Journal of the American Chemical Society</i> , 2005, 127, 5304-5305.	6.6	370
2	Anion Template Effect on the Self-Assembly and Interconversion of Metallacyclophanes. <i>Journal of the American Chemical Society</i> , 2005, 127, 12909-12923.	6.6	335
3	Ion mobility mass spectrometry: a new paradigm for proteomics. <i>International Journal of Mass Spectrometry</i> , 2005, 240, 301-315.	0.7	282
4	Proteolysis in Mixed Organic/Aqueous Solvent Systems: Applications for Peptide Mass Mapping Using Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 2682-2685.	3.2	266
5	A Universal Strategy for Proteomic Studies of SUMO and Other Ubiquitin-like Modifiers. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 56-72.	2.5	195
6	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
7	Determination of the protein composition of the occlusion-derived virus of <i>Autographa californica</i> nucleopolyhedrovirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9797-9802.	3.3	170
8	Peptidomics of CNS-associated neurohemal systems of adult <i>Drosophila melanogaster</i> : A mass spectrometric survey of peptides from individual flies. <i>Journal of Comparative Neurology</i> , 2004, 474, 379-392.	0.9	170
9	Fine-Tuning the Ring-Size of Metallacyclophanes: A Rational Approach to Molecular Pentagons. <i>Journal of the American Chemical Society</i> , 2001, 123, 773-774.	6.6	164
10	Petroleum Crude Oil Characterization by IMS-MS and FTICR MS. <i>Analytical Chemistry</i> , 2009, 81, 9941-9947.	3.2	164
11	Tandem quadrupole Fourier-transform mass spectrometry of oligopeptides and small proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 620-623.	3.3	157
12	Thermal Denaturation: A Useful Technique in Peptide Mass Mapping. <i>Analytical Chemistry</i> , 2000, 72, 2667-2670.	3.2	154
13	Coupling High-Pressure MALDI with Ion Mobility/Orthogonal Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 3965-3971.	3.2	152
14	<i>Saccharomyces cerevisiae</i> THI4p is a suicide thiamine thiazole synthase. <i>Nature</i> , 2011, 478, 542-546.	13.7	149
15	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
16	Neuropeptidomics of the Mosquito <i>Aedes aegypti</i> . <i>Journal of Proteome Research</i> , 2010, 9, 2006-2015.	1.8	141
17	Biodegradation of triclosan by a wastewater microorganism. <i>Water Research</i> , 2012, 46, 4226-4234.	5.3	139
18	High-resolution Mass Spectrometry and Accurate Mass Measurements with Emphasis on the Characterization of Peptides and Proteins by Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry. <i>Journal of Mass Spectrometry</i> , 1997, 32, 263-276.	0.7	135

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19	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
20	Isotopic labeling investigation of the oxygenation of nickel-bound thiolates by molecular oxygen. <i>Journal of the American Chemical Society</i> , 1992, 114, 4601-4605.	6.6	128
21	Solid Phase Syntheses of Oligoureas. <i>Journal of the American Chemical Society</i> , 1997, 119, 1556-1564.	6.6	128
22	Silver Nanoparticles as Selective Ionization Probes for Analysis of Olefins by Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 6796-6799.	3.2	121
23	Polycarbonates Derived from Glucose via an Organocatalytic Approach. <i>Journal of the American Chemical Society</i> , 2013, 135, 6826-6829.	6.6	117
24	Determining Membrane Proteinâ€™Lipid Binding Thermodynamics Using Native Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2016, 138, 4346-4349.	6.6	116
25	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
26	Characterization of Poly(amidoamine) Dendrimers and Their Complexes with Cu ²⁺ by Matrix-Assisted Laser Desorption Ionization Mass Spectrometry. <i>Macromolecules</i> , 2001, 34, 3567-3573.	2.2	109
27	Fast-atom-bombardment-tandem mass spectrometry studies of alkali-metal ions of small peptides. <i>Analytical Chemistry</i> , 1986, 58, 1076-1080.	3.2	107
28	An evaluation of Fourier transform mass spectrometry for high mass applications. <i>Mass Spectrometry Reviews</i> , 1986, 5, 167-189.	2.8	103
29	Liquid sample introduction for matrix-assisted laser desorption ionization. <i>Analytical Chemistry</i> , 1993, 65, 2534-2537.	3.2	94
30	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
31	An electrostatic focusing ion guide for ion mobility-mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2004, 239, 43-49.	0.7	92
32	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
33	Evaluation of matrix-assisted laser desorption ionization-time-of-flight mass measurement accuracy by using delayed extraction. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 995-1001.	1.2	89
34	<i>Cis</i> â€™ <i>Trans</i> Isomerizations of Proline Residues Are Key to Bradykinin Conformations. <i>Journal of the American Chemical Society</i> , 2013, 135, 3186-3192.	6.6	89
35	Fast-atom bombardment-tandem mass spectrometry studies of organo-alkali-metal ions of small peptides. Competitive interaction of sodium with basic amino acid substituents. <i>Analytical Chemistry</i> , 1988, 60, 1818-1824.	3.2	86
36	Reproducibility and quantitation of matrix-assisted laser desorption ionization mass spectrometry: Effects of nitrocellulose on peptide ion yields. <i>Biological Mass Spectrometry</i> , 1993, 22, 544-550.	0.5	86

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37	Distinguishing between Phosphorylated and Nonphosphorylated Peptides with Ion Mobility ⁺ Mass Spectrometry. <i>Journal of Proteome Research</i> , 2002, 1, 303-306.	1.8	86
38	Tailoring Nanoparticle Surface Chemistry to Enhance Laser Desorption Ionization of Peptides and Proteins. <i>Nano Letters</i> , 2007, 7, 3023-3025.	4.5	86
39	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
40	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
41	The <i>Caulobacter crescentus</i> phage phiCbK: genomics of a canonical phage. <i>BMC Genomics</i> , 2012, 13, 542.	1.2	85
42	Surface-Induced Dissociation on a MALDI-Ion Mobility-Orthogonal Time-of-Flight Mass Spectrometer: ⁺ Sequencing Peptides from an ⁺ œln-Solution ⁺ Protein Digest. <i>Analytical Chemistry</i> , 2001, 73, 2233-2238.	3.2	83
43	Trafficking of ODV-E66 is mediated via a sorting motif and other viral proteins: Facilitated trafficking to the inner nuclear membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8372-8377.	3.3	83
44	Peak capacity of ion mobility mass spectrometry: the utility of varying drift gas polarizability for the separation of tryptic peptides. <i>Journal of Mass Spectrometry</i> , 2004, 39, 361-367.	0.7	83
45	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
46	Peak capacity of ion mobility mass spectrometry:. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 782, 385-392.	1.2	82
47	Cesium ion desorption ionization with Fourier transform mass spectrometry (FTMS). <i>Analytical Chemistry</i> , 1984, 56, 578-581.	3.2	80
48	The Molecular Basis of Sugar Sensing in <i>Drosophila</i> Larvae. <i>Current Biology</i> , 2013, 23, 1466-1471.	1.8	78
49	A collision cross-section database of singly-charged peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1232-1238.	1.2	77
50	Are proton transfer reactions of excited states involved in UV laser desorption ionization?. <i>Organic Mass Spectrometry</i> , 1992, 27, 827-830.	1.3	76
51	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
52	Mass spectrometry. <i>Analytical Chemistry</i> , 1992, 64, 467-502.	3.2	74
53	Analysis of Phosphorylated Peptides by Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 6727-6733.	3.2	72
54	A genetically encoded photocaged N ⁺ -methyl-l-lysine. <i>Molecular BioSystems</i> , 2010, 6, 1557.	2.9	72

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55	Label-Free Biosensing with Lipid-Functionalized Gold Nanorods. <i>Journal of the American Chemical Society</i> , 2011, 133, 4182-4185.	6.6	72
56	Oligonucleotide analysis with MALDI- ⁺ ion-mobility-TOFMS. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 612-617.	1.9	70
57	Field-corrected ion cell for ion cyclotron resonance. <i>Analytical Chemistry</i> , 1990, 62, 520-526.	3.2	67
58	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
59	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
60	Aerosol Matrix-Assisted Laser Desorption Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1994, 5, 1-9.	1.2	65
61	Identification of Individual Proteins in Complex Protein Mixtures by High-Resolution, High-Mass-Accuracy MALDI TOF-Mass Spectrometry Analysis of In-Solution Thermal Denaturation/Enzymatic Digestion. <i>Analytical Chemistry</i> , 2001, 73, 2558-2564.	3.2	65
62	Mass spectrometry. <i>Analytical Chemistry</i> , 1988, 60, 294-342.	3.2	63
63	Sexually dimorphic metabolism of branched-chain lipids in C57BL/6J mice. <i>Journal of Lipid Research</i> , 2004, 45, 812-830.	2.0	63
64	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
65	Ratiometric Pulsed Alkylation/Mass Spectrometry of the Cysteine Pairs in Individual Zinc Fingers of MRE-Binding Transcription Factor-1 (MTF-1) as a Probe of Zinc Chelate Stability. <i>Biochemistry</i> , 2001, 40, 15164-15175.	1.2	60
66	Observation of Conserved Solution-Phase Secondary Structure in Gas-Phase Tryptic Peptides. <i>Journal of the American Chemical Society</i> , 2002, 124, 4214-4215.	6.6	60
67	The structure of an insect chymotrypsin. <i>Journal of Molecular Biology</i> , 2000, 298, 895-901.	2.0	59
68	Ion mobility-mass spectrometry applied to cyclic peptide analysis: Conformational preferences of gramicidin S and linear analogs in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 870-878.	1.2	59
69	Biochemical and Functional Analyses of the Human Toll-like Receptor 3 Ectodomain. <i>Journal of Biological Chemistry</i> , 2007, 282, 7668-7678.	1.6	59
70	Structure and Function of the Virulence-Associated High-Temperature Requirement A of <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2008, 47, 6092-6102.	1.2	59
71	Molecular Weight Distributions of Asphaltenes and Deasphalted Oils Studied by Laser Desorption Ionization and Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 8592-8597.	3.2	59
72	Hepatic phenotype of liver fatty acid binding protein gene-ablated mice. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, G1053-G1065.	1.6	59

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73	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
74	Target-gas excitation accompanying collisional activation of large polyatomic ions. <i>Journal of the American Chemical Society</i> , 1986, 108, 6174-6179.	6.6	58
75	Template Effect for O ₂ Addition across cis-Sulfur Sites in Nickel Dithiolates. <i>Journal of the American Chemical Society</i> , 1996, 118, 1791-1792.	6.6	57
76	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
77	Identification of the Naturally Occurring Flavin of Nitroalkane Oxidase from <i>Fusarium oxysporum</i> as a 5-Nitrobutyl-FAD and Conversion of the Enzyme to the Active FAD-containing Form. <i>Journal of Biological Chemistry</i> , 1997, 272, 5563-5570.	1.6	56
78	Pro-sterol Carrier Protein-2. <i>Journal of Biological Chemistry</i> , 2000, 275, 25547-25555.	1.6	56
79	Liver Proteome Analysis in a Rodent Model of Alcoholic Steatosis. <i>Journal of Proteome Research</i> , 2009, 8, 1663-1671.	1.8	56
80	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
81	A convenient method for genetic incorporation of multiple noncanonical amino acids into one protein in <i>Escherichia coli</i> . <i>Molecular BioSystems</i> , 2010, 6, 683.	2.9	56
82	The structure of gas-phase bradykinin fragment 1-5 (RPPGF) ions: An ion mobility spectrometry and H/D exchange ion-molecule reaction chemistry study. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 893-905.	1.2	53
83	Longitudinal Surface Plasmon Resonance Based Gold Nanorod Biosensors for Mass Spectrometry. <i>Langmuir</i> , 2010, 26, 6066-6070.	1.6	53
84	Characterizing the Conformationome: Toward a Structural Understanding of the Proteome. <i>Accounts of Chemical Research</i> , 2017, 50, 556-560.	7.6	53
85	Detection of femtomole and sub-femtomole levels of peptides by tandem magnetic sector/reflectron time-of-flight mass spectrometry and matrix-assisted laser desorption ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 1991, 2, 91-94.	1.2	52
86	A method for removal of N-BOC protecting groups from substrates on TFA-sensitive resins. <i>Tetrahedron Letters</i> , 1998, 39, 7439-7442.	0.7	52
87	Fragmentation chemistry of [M + Cu] ⁺ peptide ions containing an N-terminal arginine. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 626-638.	1.2	51
88	Development of a Fourier-transform ion cyclotron resonance mass spectrometer-ion mobility spectrometer. <i>Review of Scientific Instruments</i> , 2000, 71, 4078.	0.6	51
89	Site-selective chemical protein glycosylation protects from autolysis and proteolytic degradation. <i>Carbohydrate Research</i> , 2009, 344, 1508-1514.	1.1	51
90	On the Structure Elucidation Using Ion Mobility Spectrometry and Molecular Dynamics. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8221-8234.	1.1	50

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91	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
92	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
93	Sequence and side-chain specific photofragment (193 nm) ions from protonated substance P by matrix-assisted laser desorption ionization time-of-flight mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 1038-1040.	1.2	49
94	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
95	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
96	Matrix-assisted laser desorption ionization hydrogen/deuterium exchange studies to probe peptide conformational changes. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 719-731.	1.2	48
97	Proteomic Analysis of 3T3-L1 Adipocyte Mitochondria during Differentiation and Enlargement. <i>Journal of Proteome Research</i> , 2011, 10, 4692-4702.	1.8	48
98	A fundamental introduction to ion mobility mass spectrometry applied to the analysis of biomolecules. <i>Journal of Biomolecular Techniques</i> , 2002, 13, 56-61.	0.8	48
99	Profile and Flight Time Analysis of Bovine Insulin Clusters as a Probe of Matrix-assisted Laser Desorption/Ionization Ion Formation Dynamics. , 1997, 32, 714-722.		47
100	Detection of High-Mass Biomolecules in Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Theoretical and Experimental Investigations. <i>Analytical Chemistry</i> , 1994, 66, 1583-1587.	3.2	46
101	Membrane Charge and Curvature Determine Interaction with Acyl-CoA Binding Protein (ACBP) and Fatty Acyl-CoA Targeting. <i>Biochemistry</i> , 2002, 41, 10540-10553.	1.2	45
102	Detection of mass 16241 ions by Fourier-transform mass spectrometry. <i>Analytical Chemistry</i> , 1986, 58, 483-485.	3.2	44
103	Mass spectrometry. <i>Analytical Chemistry</i> , 1990, 62, 268-303.	3.2	44
104	Comparative studies of 193-nm photodissociation and TOF-TOFMS analysis of bradykinin analogues: The effects of charge site(s) and fragmentation timescales. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 721-729.	1.2	44
105	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
106	Aerosol Matrix-Assisted Laser Desorption Ionization for Liquid Chromatography/Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 1994, 66, 1601-1609.	3.2	43
107	Isolation and characterization of two distinct forms of liver fatty acid binding protein from the rat. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 1999, 1436, 413-425.	1.2	43
108	Analysis of protein mixtures by matrix-assisted laser desorption ionization-ion mobility-orthogonal-time-of-flight mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2002, 219, 253-267.	0.7	43

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109	Comparative peptidomics of four related hemipteran species: Pyrokinins, myosuppressin, corazonin, adipokinetic hormone, sNPF, and periviscerokinins. <i>Peptides</i> , 2008, 29, 162-167.	1.2	43
110	The neuropeptidomics of <i>Ixodes scapularis</i> synganglion. <i>Journal of Proteomics</i> , 2009, 72, 1040-1045.	1.2	43
111	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
112	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
113	Divergent pathways for the addition of dioxygen to sulfur in nickel cis-dithiolates: an isotopomeric analysis. <i>Inorganic Chemistry</i> , 1993, 32, 4171-4172.	1.9	42
114	Structure and Function of Normal and Transformed Murine Acyl-CoA Binding Proteins. <i>Archives of Biochemistry and Biophysics</i> , 1998, 350, 201-213.	1.4	42
115	Improvement of Resolution, Mass Accuracy, and Reproducibility in Reflected Mode DE-MALDI-TOF Analysis of DNA Using Fast Evaporation Overlayer Sample Preparations. <i>Analytical Chemistry</i> , 2000, 72, 3860-3866.	3.2	42
116	Determination of copper binding sites in peptides containing basic residues: a combined experimental and theoretical study. <i>International Journal of Mass Spectrometry</i> , 2001, 204, 31-46.	0.7	42
117	Accurate mass measurement of DNA oligonucleotide ions using high-resolution time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2002, 37, 357-371.	0.7	41
118	A Facile Method to Synthesize Histones with Posttranslational Modification Mimics. <i>Biochemistry</i> , 2012, 51, 5232-5234.	1.2	40
119	Keto-enol tautomerism of gas-phase ions. Structure of reactive 1,3-cyclohexadien-5-one radical cations. <i>Journal of the American Chemical Society</i> , 1978, 100, 6133-6137.	6.6	39
120	Formation of ionic transition-metal carbonyl cluster fragments by ion-molecule reactions. 1. The chromium hexacarbonyl and iron pentacarbonyl systems. <i>Journal of the American Chemical Society</i> , 1985, 107, 3762-3768.	6.6	39
121	Laser desorption studies of high mass biomolecules in Fourier-transform ion cyclotron resonance mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 5701-5704.	3.3	39
122	Binding of DNA Purine Sites to Dirhodium Compounds Probed by Mass Spectrometry. <i>Inorganic Chemistry</i> , 2004, 43, 6177-6187.	1.9	39
123	Laser ion beam photodissociation studies of model amino acids and peptides. <i>Journal of the American Chemical Society</i> , 1989, 111, 1161-1171.	6.6	38
124	Effects of Matrix Structure/Acidity on Ion Formation in Matrix-Assisted Laser Desorption Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1997, 119, 2534-2540.	6.6	38
125	Improving mass spectrometric sequencing of arginine-containing peptides by derivatization with acetylacetone. <i>Journal of Mass Spectrometry</i> , 1997, 32, 1337-1349.		38
126	A High Repetition Rate (1 kHz) Microcrystal Laser for High Throughput Atmospheric Pressure MALDI-Quadrupole-Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 648-654.	3.2	38

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127	Structure and Function of the Sterol Carrier Protein-2 N-Terminal Presequence. <i>Biochemistry</i> , 2008, 47, 5915-5934.	1.2	38
128	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
129	Cesium desorption ionization studies of .beta.-cyclodextrin by Fourier transform mass spectrometry. <i>Journal of the American Chemical Society</i> , 1985, 107, 5652-5657.	6.6	37
130	Investigation of the dynamics of matrix-assisted laser desorption/ionization ion formation using an electrostatic analyzer/time-of-flight mass spectrometer. <i>Journal of Mass Spectrometry</i> , 1999, 34, 684-690.	0.7	37
131	Resolution equations for high-field ion mobility. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1320-1324.	1.2	37
132	Functional Analysis of RNA Binding by the Hepatitis C Virus RNA-dependent RNA Polymerase. <i>Journal of Biological Chemistry</i> , 2005, 280, 38011-38019.	1.6	37
133	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
134	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
135	Mass and energy selective ion partitioning in a two-section Fourier-transform ion cyclotron resonance spectrometer cell. <i>Analytical Chemistry</i> , 1989, 61, 53-57.	3.2	36
136	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
137	Pulsed-Alkylation Mass Spectrometry for the Study of Protein Folding and Dynamics: Development and Application to the Study of a Folding/Unfolding Intermediate of Bacterial Luciferase. <i>Biochemistry</i> , 2001, 40, 15153-15163.	1.2	35
138	Optimization of a matrix-assisted laser desorption ionization-ion mobility-surface-induced dissociation-orthogonal-time-of-flight mass spectrometer: simultaneous acquisition of multiple correlated MS 1 and MS 2 spectra. <i>International Journal of Mass Spectrometry</i> , 2001, 212, 519-533.	0.7	35
139	The influence and utility of varying field strength for the separation of tryptic peptides by ion mobility-mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 158-165.	1.2	35
140	Mass spectrometric assignment of Leu/Ile in neuropeptides from single neurohemal organ preparations of insects. <i>Peptides</i> , 2005, 26, 2151-2156.	1.2	35
141	Sol-Gel-Derived Silver-Nanoparticle-Embedded Thin Film for Mass Spectrometry-Based Biosensing. <i>Langmuir</i> , 2013, 29, 6502-6507.	1.6	35
142	Ion-molecule reaction chemistry of various gas-phase C6H6 radical cations. <i>Journal of the American Chemical Society</i> , 1977, 99, 3603-3609.	6.6	34
143	Electrocyclic ring opening of the cyclobutene radical cation. <i>Journal of the American Chemical Society</i> , 1979, 101, 2082-2086.	6.6	34
144	Effects of the Water Content in the Sample Preparation for MALDI on the Mass Spectra. <i>Analytical Chemistry</i> , 1998, 70, 4527-4533.	3.2	34

#	ARTICLE	IF	CITATIONS
145	Ratiometric Pulsed Alkylation Mass Spectrometry as a Probe of Thiolate Reactivity in Different Metalloderivatives of <i>Staphylococcus aureus</i> . <i>Biochemistry</i> , 2004, 43, 3824-3834.	1.2	34
146	Gas-Phase Conformations of Proteolytically Derived Protein Fragments: Influence of Solvent on Peptide Conformation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15321-15331.	1.2	34
147	Isolation and characterization of two disintegrins inhibiting ADP-induced human platelet aggregation from the venom of <i>Crotalus scutulatus scutulatus</i> (Mohave Rattlesnake). <i>Toxicology and Applied Pharmacology</i> , 2006, 212, 59-68.	1.3	34
148	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
149	Fragmentation of vitamin B12 during 337 nm matrix-assisted laser desorption ionization. <i>Biological Mass Spectrometry</i> , 1994, 23, 205-211.	0.5	33
150	Sub-Femtomole Peptide Detection in Ion Mobility-Time-of-Flight Mass Spectrometry Measurements. <i>Journal of Proteome Research</i> , 2003, 2, 427-430.	1.8	33
151	Native IM-Orbitrap MS: Resolving what was hidden. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 124, 115533.	5.8	33
152	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
153	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
154	Evolution of Hydrogen-Bond Networks in Protonated Water Clusters $H_2O_n^+$ ($n = 1$ to 120) Studied by Cryogenic Ion Mobility-Mass Spectrometry. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1825-1830.	2.1	31
155	An evaluation of the analytical utility of the photodissociation of fast ion beams. <i>Mass Spectrometry Reviews</i> , 1990, 9, 405-451.	2.8	30
156	Proteome analysis of <i>Escherichia coli</i> K-12 by two-dimensional native-state chromatography and MALDI-MS. <i>Molecular Microbiology</i> , 2003, 47, 383-396.	1.2	30
157	Experimental and Theoretical Studies of $(Cs)_nCs^+$ Cluster Ions Produced by 355 nm Laser Desorption Ionization. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11061-11066.	1.1	30
158	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
159	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
160	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
161	THE IMS PARADOX: A PERSPECTIVE ON STRUCTURAL ION MOBILITY-MASS SPECTROMETRY. <i>Mass Spectrometry Reviews</i> , 2021, 40, 280-305.	2.8	29
162	The structure of decomposing $[C_7H_7O]^+$ ions: Benzyl versus tropylium ion structures. <i>Organic Mass Spectrometry</i> , 1983, 18, 474-485.	1.3	28

#	ARTICLE	IF	CITATIONS
163	High-energy collision-induced dissociation with Fourier transform mass spectrometry. <i>Analytical Chemistry</i> , 1983, 55, 2417-2418.	3.2	28
164	Effects of heavy-atom substituents on matrices used for matrix-assisted laser desorption/ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1994, 5, 800-806.	1.2	28
165	Mass spectrometric analysis of putative capa-gene products in <i>Musca domestica</i> and <i>Neobellieria bullata</i> . <i>Peptides</i> , 2003, 24, 1487-1491.	1.2	28
166	Disintegrin, hemorrhagic, and proteolytic activities of Mohave rattlesnake, <i>Crotalus scutulatus scutulatus</i> venoms lacking Mojave toxin. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2005, 141, 124-132.	1.3	28
167	Decomposition of the 1,3-butadiene radical cation on the microsecond to picosecond time scale. <i>Journal of the American Chemical Society</i> , 1979, 101, 2086-2090.	6.6	27
168	Structural determination of [C ₇ H ₇ O] ⁺ ions in the gas phase by ion cyclotron resonance spectrometry. <i>Organic Mass Spectrometry</i> , 1983, 18, 378-387.	1.3	27
169	A novel surface-induced dissociation instrument for ion mobility-time-of-flight mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007, 259, 79-86.	0.7	27
170	Selective binding of a toxin and phosphatidylinositides to a mammalian potassium channel. <i>Nature Communications</i> , 2019, 10, 1352.	5.8	27
171	Chemical properties of the fulvene radical cation: a cycloaddition with 1,3-butadiene. <i>Journal of the American Chemical Society</i> , 1980, 102, 6279-6284.	6.6	26
172	Structural Mass Spectrometry of Matrix-Assisted Laser-Desorbed Biomolecules by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Photoionization and Photofragmentation. <i>Applied Spectroscopy</i> , 1993, 47, 211-217.	1.2	26
173	Mass measurement accuracy of matrix-assisted laser desorbed biomolecules: A Fourier-transform ion cyclotron resonance mass spectrometry study. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 26-31.	0.7	26
174	Novel method for [M + Cu] ⁺ ion formation by matrix-assisted laser desorption ionization. <i>International Journal of Mass Spectrometry</i> , 1999, 182-183, 185-195.	0.7	26
175	Optimization of Sample Preparation for Peptide Sequencing by MALDI-TOF Photofragment Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 5378-5386.	3.2	26
176	Studies on the Biosynthesis of Phomoidride B (CP-263,114): Evidence for a Decarboxylative Homodimerization Pathway. <i>Organic Letters</i> , 2002, 4, 1447-1450.	2.4	26
177	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
178	Aerosol Matrix-Assisted Laser Desorption Ionization: Effects of Analyte Concentration and Matrix-to-Analyte Ratio. <i>Analytical Chemistry</i> , 1995, 67, 1981-1986.	3.2	25
179	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
180	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

#	ARTICLE	IF	CITATIONS
181	Conformationally Regulated Peptide Bond Cleavage in Bradykinin. <i>Journal of the American Chemical Society</i> , 2018, 140, 9357-9360.	6.6	25
182	Intrinsic GTPase Activity of K-RAS Monitored by Native Mass Spectrometry. <i>Biochemistry</i> , 2019, 58, 3396-3405.	1.2	25
183	Desorption ionization of cesium iodide by Fourier transform mass spectrometry. <i>Analytical Chemistry</i> , 1985, 57, 2290-2293.	3.2	24
184	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
185	First-Principles Collision Cross Section Measurements of Large Proteins and Protein Complexes. <i>Analytical Chemistry</i> , 2020, 92, 11155-11163.	3.2	24
186	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
187	Selective regulation of human TRAAK channels by biologically active phospholipids. <i>Nature Chemical Biology</i> , 2021, 17, 89-95.	3.9	24
188	Laser-ion beam photodissociation studies of ionic cluster fragments of transition-metal carbonyls. <i>Journal of the American Chemical Society</i> , 1987, 109, 7654-7662.	6.6	23
189	High-resolution ion partitioning technique by phase-specific ion excitation for Fourier-transform ion cyclotron resonance. <i>Analytical Chemistry</i> , 1989, 61, 83-85.	3.2	23
190	Utility of CE~MS Data in Protein Identification. <i>Analytical Chemistry</i> , 2007, 79, 3850-3855.	3.2	23
191	Anion Effects on Ionization Efficiency Using Gold Nanoparticles as Matrices for LDI-MS. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1641-1647.	1.5	23
192	Molecular Dynamics and Ion Mobility Spectrometry Study of Model $\hat{1}^2$ -Hairpin Peptide, Trpzip1. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4427-4435.	1.1	23
193	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
194	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
195	Axial magnetic inhomogeneities and low energy ion injection in Fourier-transform ion cyclotron resonance spectrometry. <i>Analytical Chemistry</i> , 1989, 61, 2528-2534.	3.2	22
196	Gas-phase ion-molecule charge-exchange reactions of iron(1+) with iron pentacarbonyl: observation of higher lying metastable electronic states. <i>The Journal of Physical Chemistry</i> , 1992, 96, 5314-5319.	2.9	22
197	Transformation of polysulfidic sulfur to elemental sulfur in a chelated iron, hydrogen sulfide oxidation process. <i>Analytica Chimica Acta</i> , 1994, 299, 97-111.	2.6	22
198	Fast C18 solid-phase desalting/delipidation of the human serum apolipoproteins for matrix-assisted laser desorption ionization and electrospray ionization mass spectrometric analysis. <i>Journal of Chromatography A</i> , 1999, 840, 183-193.	1.8	22

#	ARTICLE	IF	CITATIONS
199	Identification of PVK/CAP2b neuropeptides from single neurohemal organs of the stable fly and horn fly via MALDI-TOF/TOF tandem mass spectrometry. <i>Peptides</i> , 2006, 27, 521-526.	1.2	22
200	A novel approach to collision-induced dissociation (CID) for ion mobility-mass spectrometry experiments. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 907-914.	1.2	22
201	The contributions of molecular framework to IMS collision cross-sections of gas-phase peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1593-1602.	1.2	22
202	Ion Mobility-Mass Spectrometer Interface for Collisional Activation of Mobility Separated Ions. <i>Analytical Chemistry</i> , 2009, 81, 618-624.	3.2	22
203	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
204	Topological Analysis of Transthyretin Disassembly Mechanism: Surface-Induced Dissociation Reveals Hidden Reaction Pathways. <i>Analytical Chemistry</i> , 2019, 91, 2345-2351.	3.2	22
205	Phase synchronization of an ion ensemble by frequency sweep excitation in Fourier-transform ion cyclotron resonance. <i>Analytical Chemistry</i> , 1989, 61, 2130-2136.	3.2	21
206	Identification of the first neuropeptides from the CNS of Hemiptera: CAPA peptides of the southern green stinkbug <i>Nezara viridula</i> (L.). <i>Peptides</i> , 2006, 27, 2670-2677.	1.2	21
207	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
208	Crystal Structure of <i>Mycobacterium tuberculosis</i> 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
209	Configurational-Coupled Protonation of Polyproline-7. <i>Journal of the American Chemical Society</i> , 2015, 137, 8680-8683.	6.6	21
210	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
211	The Influence of Lipid Bilayer Physicochemical Properties on Gramicidin A Conformer Preferences. <i>Biophysical Journal</i> , 2016, 110, 1826-1835.	0.2	21
212	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
213	Discovery of Potent Charge-Reducing Molecules for Native Ion Mobility Mass Spectrometry Studies. <i>Analytical Chemistry</i> , 2020, 92, 11242-11249.	3.2	21
214	Photodissociation of High Molecular Weight Peptides and Proteins in a Two-Stage Linear Time-Of-Flight Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 578-587.	1.2	20
215	Evaluation of the variables that affect resolution in delayed extraction MALDI-TOF. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 165-166, 221-235.	1.9	20
216	Reaction of Human Cd ²⁺ metallothionein and N-Ethylmaleimide: Kinetic and Structural Insights from Electrospray Ionization Mass Spectrometry. <i>Biochemistry</i> , 2015, 54, 6021-6028.	1.2	20

#	ARTICLE	IF	CITATIONS
217	Melting of Hemoglobin in Native Solutions as measured by IMS-MS. <i>Analytical Chemistry</i> , 2020, 92, 3440-3446.	3.2	20
218	Differentiating geometric isomers by laser-ion beam photodissociation. <i>Analytical Chemistry</i> , 1985, 57, 1211-1216.	3.2	19
219	Formation of ionic transition metal carbonyl cluster fragments by ion-molecule reactions. 2. The Co(CO) ₃ (NO) and Ni(CO) ₄ systems. <i>Journal of the American Chemical Society</i> , 1986, 108, 1860-1867.	6.6	19
220	Conformations of protonated gas-phase bradykinin ions: evidence for intramolecular hydrogen bonding. , 1999, 34, 124-136.		19
221	Nanoelectrospray MS and MS ⁿ investigation of two polydentate Lewis acids, (C ₆ F ₄ Hg) ₃ and o-C ₆ F ₄ (HgCl) ₂ , characterization and halide binding selectivity. <i>International Journal of Mass Spectrometry</i> , 2003, 225, 225-231.	0.7	19
222	Peptide Sequencing by MALDI 193-nm Photodissociation TOF MS. <i>Methods in Enzymology</i> , 2005, 402, 186-209.	0.4	19
223	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
224	Wet Versus Dry Folding of Polyproline. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1037-1047.	1.2	19
225	Long-Lived Intermediates in a Cooperative Two-State Folding Transition. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12040-12046.	1.2	19
226	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
227	Ag ⁺ Ion Binding to Human Metallothionein-2A Is Cooperative and Domain Specific. <i>Analytical Chemistry</i> , 2020, 92, 8923-8932.	3.2	19
228	Formation of ionic transition-metal carbonyl cluster fragments by ion-molecule reactions. 3. The heteronuclear systems. <i>Journal of the American Chemical Society</i> , 1987, 109, 3903-3909.	6.6	18
229	Photochemistry and proton transfer reaction chemistry of selected cinnamic acid derivatives in hydrogen bonded environments. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998, 175, 187-204.	1.9	18
230	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
231	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
232	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
233	New insights into the metal-induced oxidative degradation pathways of transthyretin. <i>Chemical Communications</i> , 2019, 55, 4091-4094.	2.2	18
234	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

#	ARTICLE	IF	CITATIONS
235	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
236	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
237	Laser beam-ion beam photodissociation studies of C ₆ H ₆ ⁺ radical cations: the 2,4-hexadiyne system. <i>Journal of the American Chemical Society</i> , 1985, 107, 2346-2354.	6.6	17
238	A study of the ion-molecule reactions of the chromium pentacarbonyl anion with oxygen. <i>Journal of the American Chemical Society</i> , 1987, 109, 3910-3916.	6.6	17
239	Artifact-free matrix-assisted laser desorption ionization time-of-flight mass spectra of tert-butyltrimethylsilyl ether derivatives of cyclodextrins used for the synthesis of single-isomer, chiral resolving agents for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2001, 914, 325-330.	1.8	17
240	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
241	Two capa-genes are expressed in the neuroendocrine system of <i>Rhodnius prolixus</i> . <i>Peptides</i> , 2010, 31, 408-411.	1.2	17
242	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
243	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
244	The Chemistry of C ₆ H ₆ O radical cations: A study of rearrangement reactions of halogen substituted ethyl phenyl ethers. <i>Organic Mass Spectrometry</i> , 1979, 14, 474-481.	1.3	16
245	Measurement of positional isotope exchange rates in enzyme-catalyzed reactions by fast atom bombardment mass spectrometry: application to argininosuccinate synthetase. <i>Biochemistry</i> , 1985, 24, 5888-5893.	1.2	16
246	Ion detection by Fourier transform ion cyclotron resonance: the effect of initial radial velocity on the coherent ion packet. <i>Analytical Chemistry</i> , 1989, 61, 2040-2046.	3.2	16
247	Multi-anode detection in electrospray ionization time-of-flight mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 1328-1333.	1.2	16
248	Neuropeptides in Heteroptera: Identification of allatotropin-related peptide and tachykinin-related peptides using MALDI-TOF mass spectrometry. <i>Peptides</i> , 2009, 30, 483-488.	1.2	16
249	Ion-molecule reaction chemistry of Fe ⁺ with NO: excited-versus ground-state reactions. <i>Journal of the American Chemical Society</i> , 1993, 115, 8376-8381.	6.6	15
250	Ion motion in a Fourier transform ion cyclotron resonance wire ion guide cell. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 157-158, 129-147.	1.9	15
251	Identification of Native Flavin Adducts from <i>Fusarium oxysporum</i> Using Accurate Mass Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 2862-2865.	3.2	15
252	Ultraviolet/matrix-assisted laser desorption/ionization mass spectrometric characterization of 2,5-dihydroxybenzoic acid-induced reductive hydrogenation of oligonucleotides on cytosine residues. <i>Journal of Mass Spectrometry</i> , 2000, 35, 1025-1034.	0.7	15

#	ARTICLE	IF	CITATIONS
253	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
254	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
255	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
256	Neutral-ion correlation measurements: a novel tandem mass spectrometry data acquisition mode for tandem magnetic sector/reflectron time-of-flight instruments. <i>Analytical Chemistry</i> , 1992, 64, 754-762.	3.2	14
257	Variable-Temperature Ion Mobility Time-of-Flight Mass Spectrometry Studies of Electronic Isomers of Kr ²⁺ and CH ₃ OH+ ⁺ Radical Cations. <i>European Journal of Mass Spectrometry</i> , 2003, 9, 579-587.	0.5	14
258	A new copper containing MALDI matrix that yields high abundances of [Peptide + Cu] ⁺ ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1263-1271.	1.2	14
259	Effects of charge states, charge sites and side chain interactions on conformational preferences of a series of model peptide ions. <i>Analyst</i> , The, 2015, 140, 6933-6944.	1.7	14
260	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
261	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
262	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
263	Evaluation of pulsed fast-atom bombardment ionization for increased sensitivity of tandem mass spectrometry. <i>Analytical Chemistry</i> , 1989, 61, 153-159.	3.2	13
264	Isolation and Characterization of 26- and 30-kDa Rat Liver Proteins Immunoreactive to Anti-Sterol Carrier Protein-2 Antibodies. <i>Protein Expression and Purification</i> , 1998, 13, 337-348.	0.6	13
265	Occurrence of insect kinins in the flesh fly, stable fly and horn fly—mass spectrometric identification from single nerves and diuretic activity. <i>Peptides</i> , 2002, 23, 1885-1894.	1.2	13
266	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
267	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
268	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
269	Laser-ion beam photodissociation studies of C ₄ H ₄ radical cations. <i>Organic Mass Spectrometry</i> , 1985, 20, 606-613.	1.3	12
270	Differentiation of isotopically labeled nucleotides using fast atom bombardment tandem mass spectrometry. <i>Analytical Chemistry</i> , 1987, 59, 980-984.	3.2	12

#	ARTICLE	IF	CITATIONS
271	Laser-ion beam photodissociation studies of ionic cluster fragments of iron carbonyls: $\text{Fe}_x(\text{CO})_y^+$ ($x = 1-11$). <i>Journal of Physical Chemistry A</i> , 1997, 101, 11784-11791.	0.784314	12
272	Lanthanum hexaboride electron emitter for electron impact and electron-induced dissociation Fourier transform ion cyclotron resonance spectrometry. <i>Analytical Chemistry</i> , 1990, 62, 409-411.	3.2	12
273	Photolytic Mass Laddering for Fast Characterization of Oligomers on Single Resin Beads. <i>Journal of Organic Chemistry</i> , 1997, 62, 5662-5663.	1.7	12
274	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
275	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
276	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
277	Ligand fluxionality and the formation of cationic iron carbonyl clusters. <i>Journal of the American Chemical Society</i> , 1990, 112, 5959-5965.	6.6	11
278	High precision arbitrary waveform generator for ion selection in Fourier transform ion cyclotron resonance. <i>Analytical Chemistry</i> , 1990, 62, 1352-1355.	3.2	11
279	Collisional relaxation of metastable electronic states of Fe. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 543-553.	1.2	11
280	Aerosol Matrix-assisted Laser Desorption/Ionization Mass Spectrometry: I. Effect of Solvent on Ion Signal. <i>Journal of Mass Spectrometry</i> , 1996, 31, 295-302.	0.7	10
281	Effect of uncoupling protein-1 expression on 3T3-L1 adipocyte gene expression. <i>FEBS Letters</i> , 2007, 581, 5865-5871.	1.3	10
282	Spatially dynamic laser patterning using advanced optics for imaging matrix assisted laser desorption/ionization (MALDI) mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007, 262, 256-262.	0.7	10
283	UC/MALDI-MS analysis of HDL; evidence for density-dependent post-translational modifications. <i>International Journal of Mass Spectrometry</i> , 2007, 268, 227-233.	0.7	10
284	A dual time-of-flight apparatus for an ion mobility-surface-induced dissociation-mass spectrometer for high-throughput peptide sequencing. <i>International Journal of Mass Spectrometry</i> , 2009, 287, 39-45.	0.7	10
285	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
286	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
287	Entropy in the Molecular Recognition of Membrane Protein-Lipid Interactions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12218-12224.	2.1	10
288	Matrix-Assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry of Paclitaxel and Related Taxanes. <i>Journal of Natural Products</i> , 1994, 57, 1404-1410.	1.5	9

#	ARTICLE	IF	CITATIONS
289	A mechanistic study of the H/D exchange reactions of protonated arginine and arginine-containing Di- and tripeptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 2049-2057.	1.2	9
290	Investigation of the interaction of iron(III) complexes with dAMP by ESI-MS, MALDI-MS and potentiometric titration: insights into synthetic nuclease behavior. <i>Dalton Transactions</i> , 2010, 39, 5094.	1.6	9
291	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
292	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
293	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
294	A photodissociation study of 1,3-butadiene. <i>Journal of Chemical Physics</i> , 1988, 89, 889-896.	1.2	8
295	MALDI AND FAB MASS SPECTROMETRY OF NUCLEOSIDE TRIPHOSPHATES: A COMPARATIVE STUDY. <i>Nucleosides & Nucleotides</i> , 1996, 15, 1719-1723.	0.5	8
296	Test of the potential of a dATP surrogate for sequencing via MALDI-MS. <i>Nucleic Acids Research</i> , 1997, 25, 5072-5076.	6.5	8
297	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
298	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
299	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
300	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
301	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
302	Following a Folding Transition with Capillary Electrophoresis and Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 10933-10939.	3.2	7
303	Structural Analysis of the Effect of a Dual-FLAG Tag on Transthyretin. <i>Biochemistry</i> , 2020, 59, 1013-1022.	1.2	7
304	Mass spectrometry. <i>Analytical Chemistry</i> , 1990, 62, 268R-303R.	3.2	7
305	Fourier Transform Mass Spectrometry of Large (<i>m/z</i> > 5,000) Biomolecules. <i>ACS Symposium Series</i> , 1987, , 100-115.	0.5	6
306	Ion-molecule reaction chemistry of ionic transition-metal carbonyl cluster fragments. 1. Ligand-exchange reactions of chromium carbonyl (Cr ₂ (CO) ₉) ⁺ ions. <i>Journal of the American Chemical Society</i> , 1990, 112, 5953-5959.	6.6	6

#	ARTICLE	IF	CITATIONS
307	Characterization of Proteins Utilized in the Desulfurization of Petroleum Products by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry. <i>Analytical Biochemistry</i> , 1998, 260, 117-127.	1.1	6
308	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
309	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
310	Design and calibration of an electrostatic energy analyzer-time-of-flight mass spectrometer for measurement of laser-desorbed ion kinetic energies. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 619-626.	1.2	5
311	Separation of spin-orbit coupled metastable states of Kr ⁺ and Xe ⁺ by ion mobility. <i>Journal of Chemical Physics</i> , 2001, 114, 1709-1715.	1.2	5
312	Neuropeptides of the cotton fleahopper, <i>Pseudatomoscelis seriatus</i> (Reuter). <i>Peptides</i> , 2012, 34, 39-43.	1.2	5
313	CAPA-gene products in the haematophagous sandfly <i>Phlebotomus papatasi</i> (Scopoli) - vector for leishmaniasis disease. <i>Peptides</i> , 2013, 41, 2-7.	1.2	5
314	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
315	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
316	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
317	Development of a Fourier-Transform Ion Cyclotron Resonance (FTICR) Mass Spectrometry Method for Studies of Metal Ion Excited States. , 1996, , 197-228.		4
318	Cupric Ions Selectively Modulate TRAAK-Phosphatidylserine Interactions. <i>Journal of the American Chemical Society</i> , 2022, 144, 7048-7053.	6.6	4
319	Tandem Time-of-Flight Mass Spectrometry. <i>ACS Symposium Series</i> , 1993, , 73-94.	0.5	3
320	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
321	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
322	Mechanism of Dioxygen Addition to Nickel-Bound Thiolates. , 1993, , 209-223.		3
323	Dissociative chemistry of ionic transition metal cluster fragments. <i>Journal of Cluster Science</i> , 1991, 2, 57-70.	1.7	2
324	Signal-to-noise enhancement of neutral-ion correlation measurements for tandem time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , 1992, 64, 2879-2881.	3.2	2

#	ARTICLE	IF	CITATIONS
325	MALDI-MS as a Monitor of the Purification and Folding of Synthetic Ecdysis Hormone. Peptides, 1997, 18, 337-346.	1.2	2
326	Effect of Cysteic Acid Position on the Negative Ion Fragmentation of Proteolytic Derived Peptides. Journal of the American Society for Mass Spectrometry, 2011, 22, 31-37.	1.2	2
327	Rapid capillary mixing experiments for the analysis of hydrophobic membrane complexes directly from aqueous lipid bilayer solutions. Analyst, The, 2017, 142, 310-315.	1.7	2
328	Desorption Ionization and Fourier Transform Mass Spectrometry for the Analysis of Large Biomolecules. Springer Proceedings in Physics, 1986, , 209-212.	0.1	2
329	Electronegativity and the reactions of XFe+ (X = Cl, Br, I) with Fe(CO) ₅ . International Journal of Mass Spectrometry and Ion Processes, 1991, 110, 215-223.	1.9	1
330	<title>Protein mixture analysis by MALDI/mobility/time-of-flight mass spectrometry</title>. , 2000, 3926, 69.		1
331	Unimolecular Dissociation Reactions of Methyl Benzoate Radical Cation. Journal of Physical Chemistry A, 2008, 112, 11590-11597.	1.1	1
332	Structure-â€”Reactivity Relationships for Ionic Transition Metal Carbonyl Cluster Fragments. , 1989, , 115-135.		1
333	Mass Spectrometry of Biomolecules. , 1986, , 631-641.		1
334	Gas-Phase Polar Cycloaddition Reactions. Lecture Notes in Quantum Chemistry II, 1978, , 209-231.	0.3	1
335	Ag+ Ion Binding to Human Metallothionein-2A Is Cooperative and Domain Specific. , 0, .		1
336	A Cryogenic-Temperature Ion Mobility Mass Spectrometer for Improved Ion Mobility Resolution. , 2010, , 137-151.		1
337	Matrix-assisted laser desorption ionization of aerosols: The ionization mechanism. AIP Conference Proceedings, 1993, , .	0.3	0
338	<title>Identification of proteins from whole cell lysates: high-resolution time-of-flight mass spectrometry</title>. , 2000, , .		0
339	Conformation and Self-Assembly of the Transmembrane Peptide Gramicidin A: Insights from ion Mobility Spectrometry and Molecular Dynamics. Biophysical Journal, 2011, 100, 387a.	0.2	0
340	Characterization of Structural Changes of Metallothionein by Ion Mobility-Mass Spectrometry (IM-MS): Metal-Free Vs. Metallated Forms. Biophysical Journal, 2012, 102, 57a.	0.2	0
341	Cu ²⁺ -Phosphatidylserine Binding and its Implications for Protein-Membrane Interactions. Biophysical Journal, 2015, 108, 181a.	0.2	0
342	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. Journal of the American Society for Mass Spectrometry, 2019, 30, 893-897.	1.2	0

#	ARTICLE	IF	CITATIONS
343	67TH ASMS Conference on Mass Spectrometry and Allied Topics. Journal of the American Society for Mass Spectrometry, 2019, 30, 1-295.	1.2	0
344	A SPECIAL ISSUE DEDICATED TO THE OUTSTANDING SCIENTIFIC CAREER OF PROF. MICHAEL L. GROSS. Mass Spectrometry Reviews, 2021, 40, 161-161.	2.8	0
345	Editorial: Focus on Ionization Technologies Used in MS: Fundamentals and Applications, Honoring Dr. Sarah Trimpin, Recipient of the 2019 ASMS Biemann Medal. Journal of the American Society for Mass Spectrometry, 2021, 32, 616-617.	1.2	0
346	Editorial: Focus on Protein Footprinting, Honoring Michael Gross, Recipient of the 2020 John B. Fenn Award for a Distinguished Contribution in Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2021, 32, 1565-1566.	1.2	0
347	Some Aspects of the Chemistry of Ionic Organo-Alkali Metal Halide Clusters Formed by Desorption Ionization. Springer Series in Chemical Physics, 1986, , 506-508.	0.2	0
348	Fourier Transform Mass Spectrometry for High Mass Applications. Springer Series in Chemical Physics, 1986, , 488-491.	0.2	0