Erin Shammel Baker

List of Publications by Year
in descending order

152 papers	7,257 citations	44069 48 h-index	71685 76 g-index
162 all docs	162 docs citations	162 times ranked	6302 citing authors

#	Article	IF	Citations
1	Utilizing liquid chromatography, ion mobility spectrometry, and mass spectrometry to assess INLIGHTâ„¢ derivatized N-linked glycans in biological samples. Analytical and Bioanalytical Chemistry, 2022, 414, 623-637.	3.7	6
2	A Preprocessing Tool for Enhanced Ion Mobilityâ€“Mass Spectrometry-Based Omics Workflows. Journal of Proteome Research, 2022, 21, 798-807.	3.7	44
3	Analysis of per- and polyfluoroalkyl substances in Houston Ship Channel and Galveston Bay following a large-scale industrial fire using ion-mobility-spectrometry-mass spectrometry. Journal of Environmental Sciences, 2022, 115, 350-362.	6.1	16
4	Utilizing ion mobility spectrometry-mass spectrometry for the characterization and detection of persistent organic pollutants and their metabolites. Analytical and Bioanalytical Chemistry, 2022, 414, 1245-1258.	3.7	9
5	Combining Micropunch Histology and Multidimensional Lipidomic Measurements for In-Depth Tissue Mapping. ACS Measurement Science Au, 2022, 2, 67-75.	4.4	10
6	Per- and polyfluoroalkyl substances (PFAS)â€”contaminants of emerging concern. Analytical and Bioanalytical Chemistry, 2022, 414, 1187-1188.	3.7	12
7	Combining Isotopologue Workflows and Simultaneous Multidimensional Separations to Detect, Identify, and Validate Metabolites in Untargeted Analyses. Analytical Chemistry, 2022, 94, 2527-2535.	6.5	6
8	Characterization of compositional variability in petroleum substances. Fuel, 2022, 317, 123547.	6.4	8
9	Empowering women and addressing underrepresentation in the field of mass spectrometry. Expert Review of Proteomics, 2022, 19, 1-3.	3.0	1
10	Utilizing Pine Needles to Temporally and Spatially Profile Per- and Polyfluoroalkyl Substances (PFAS). Environmental Science & Technology, 2022, 56, 3441-3451.	10.0	26
11	Development and Application of Multidimensional Lipid Libraries to Investigate Lipidomic Dysregulation Related to Smoke Inhalation Injury Severity. Journal of Proteome Research, 2022, 21, 232-242.	3.7	18
12	High-Resolution Demultiplexing (HRdm) Ion Mobility Spectrometryâ€“Mass Spectrometry for Aspartic and Isoaspartic Acid Determination and Screening. Analytical Chemistry, 2022, 94, 6191-6199.	6.5	12
13	Cupric Ions Selectively Modulate TRAAKâ€“Phosphatidylserine Interactions. Journal of the American Chemical Society, 2022, 144, 7048-7053.	13.7	4
14	Surface Modified Nano-Electrospray Needles Improve Sensitivity for Native Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2022, 33, 1031-1037.	2.8	8
15	Uncovering PFAS and Other Xenobiotics in the Dark Metabolome Using Ion Mobility Spectrometry, Mass Defect Analysis, and Machine Learning. Environmental Science & Technology, 2022, 56, 9133-9143.	10.0	34
16	Utilizing Skyline to analyze lipidomics data containing liquid chromatography, ion mobility spectrometry and mass spectrometry dimensions. Nature Protocols, 2022, 17, 2415-2430.	12.0	23
17	A Comparative Analysis of Analytical Techniques for Rapid Oil Spill Identification. Environmental Toxicology and Chemistry, 2021, 40, 1034-1049.	4.3	11
18	From Pesticides to Per- and Polyfluoroalkyl Substances: An Evaluation of Recent Targeted and Untargeted Mass Spectrometry Methods for Xenobiotics. Analytical Chemistry, 2021, 93, 641-656.	6.5	21

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19	Utilizing Ion Mobility-Mass Spectrometry to Investigate the Unfolding Pathway of Cu/Zn Superoxide Dismutase. Frontiers in Chemistry, 2021, 9, 614595.	3.6	10
20	Relationships between constituents of energy drinks and beating parameters in human induced pluripotent stem cell (iPSC)-Derived cardiomyocytes. Food and Chemical Toxicology, 2021, 149, 111979.	3.6	8
21	Ion Mobility Spectrometry Characterization of the Intermediate Hydrogen-Containing Gold Cluster Au₇(PPh₃)₇H₅²⁺. Journal of Physical Chemistry Letters, 2021, 12, 2502-2508.	4.6	11
22	Spatial Distribution of Polycyclic Aromatic Hydrocarbon Contaminants after Hurricane Harvey in a Houston Neighborhood. Journal of Health and Pollution, 2021, 11, 210308.	1.8	5
23	From Plants to Ants: Fungal Modification of Leaf Lipids for Nutrition and Communication in the Leaf-Cutter Ant Fungal Garden Ecosystem. MSystems, 2021, 6, .	3.8	11
24	Multiomic Big Data Analysis Challenges: Increasing Confidence in the Interpretation of Artificial Intelligence Assessments. Analytical Chemistry, 2021, 93, 7763-7773.	6.5	18
25	Data Processing Workflow to Identify Structurally Related Compounds in Petroleum Substances Using Ion Mobility Spectrometryâ€“Mass Spectrometry. Energy & Fuels, 2021, 35, 10529-10539.	5.1	9
26	In situ imaging reveals disparity between prostaglandin localization and abundance of prostaglandin synthases. Communications Biology, 2021, 4, 966.	4.4	8
27	Recommendations for good practice in MS-based lipidomics. Journal of Lipid Research, 2021, 62, 100138.	4.2	85
28	From Prevention to Disease Perturbations: A Multi-Omic Assessment of Exercise and Myocardial Infarctions. Biomolecules, 2021, 11, 40.	4.0	8
29	A Histoplasma capsulatum Lipid Metabolic Map Identifies Antifungal Targets. MBio, 2021, 12, e0297221.	4.1	6
30	Improving the Speed and Selectivity of Newborn Screening Using Ion Mobility Spectrometryâ€“Mass Spectrometry. Analytical Chemistry, 2021, 93, 17094-17102.	6.5	21
31	Rapid Characterization of Emerging Per- and Polyfluoroalkyl Substances in Aqueous Film-Forming Foams Using Ion Mobility Spectrometryâ€“Mass Spectrometry. Environmental Science & Technology, 2020, 54, 15024-15034.	10.0	35
32	Structural-based connectivity and omic phenotype evaluations (SCOPE): a cheminformatics toolbox for investigating lipidomic changes in complex systems. Analyst, The, 2020, 145, 7197-7209.	3.5	16
33	Proteomic assessment of serum biomarkers of longevity in older men. Aging Cell, 2020, 19, e13253.	6.7	12
34	Unveiling molecular signatures of preeclampsia and gestational diabetes mellitus with multi-omics and innovative cheminformatics visualization tools. Molecular Omics, 2020, 16, 521-532.	2.8	16
35	Enhanced protocol for quantitative N-linked glycomics analysis using Individuality Normalization when Labeling with Isotopic Glycan Hydrazide Tags (INLIGHT)â„¢. Analytical and Bioanalytical Chemistry, 2020, 412, 7569-7579.	3.7	11
36	Temporal and spatial analysis of per and polyfluoroalkyl substances in surface waters of Houston ship channel following a large-scale industrial fire incident. Environmental Pollution, 2020, 265, 115009.	7.5	23

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37	Coupling IR-MALDESI with Drift Tube Ion Mobility-Mass Spectrometry for High-Throughput Screening and Imaging Applications. Journal of the American Society for Mass Spectrometry, 2020, 31, 642-650.	2.8	22
38	Rapid Characterization of Per- and Polyfluoroalkyl Substances (PFAS) by Ion Mobility Spectrometryâ€“Mass Spectrometry (IMS-MS). Analytical Chemistry, 2020, 92, 4427-4435.	6.5	71
39	Utilizing Drift Tube Ion Mobility Spectrometry for the Evaluation of Metabolites and Xenobiotics. Methods in Molecular Biology, 2020, 2084, 35-54.	0.9	10
40	Folding and Assembly of Short Î±, Î², Î³-Hybrid Peptides: Minor Variations in Sequence and Drastic Differences in Higher-Level Structures. Journal of the American Chemical Society, 2019, 141, 14239-14248.	13.7	18
41	Perspectives on Data Analysis in Metabolomics: Points of Agreement and Disagreement from the 2018 ASMS Fall Workshop. Journal of the American Society for Mass Spectrometry, 2019, 30, 2031-2036.	2.8	16
42	Ion Mobility Spectrometry: Fundamental Concepts, Instrumentation, Applications, and the Road Ahead. Journal of the American Society for Mass Spectrometry, 2019, 30, 2185-2195.	2.8	244
43	Evaluating the structural complexity of isomeric bile acids with ion mobility spectrometry. Analytical and Bioanalytical Chemistry, 2019, 411, 4673-4682.	3.7	16
44	Ion mobility spectrometry and the omics: Distinguishing isomers, molecular classes and contaminant ions in complex samples. TrAC - Trends in Analytical Chemistry, 2019, 116, 292-299.	11.4	71
45	Challenges in Identifying the Dark Molecules of Life. Annual Review of Analytical Chemistry, 2019, 12, 177-199.	5.4	55
46	Predicting Ion Mobility Collision Cross-Sections Using a Deep Neural Network: DeepCCS. Analytical Chemistry, 2019, 91, 5191-5199.	6.5	121
47	Ion Mobility-Mass Spectrometry in Metabolomic, Lipidomic, and Proteomic Analyses. Comprehensive Analytical Chemistry, 2019, , 123-159.	1.3	15
48	Utilizing ion mobility spectrometry and mass spectrometry for the analysis of polycyclic aromatic hydrocarbons, polychlorinated biphenyls, polybrominated diphenyl ethers and their metabolites. Analytica Chimica Acta, 2018, 1037, 265-273.	5.4	59
49	Highâ€throughput serum proteomics for the identification of protein biomarkers of mortality in older men. Aging Cell, 2018, 17, e12717.	6.7	19
50	Editorial overview: Omics. Current Opinion in Chemical Biology, 2018, 42, A1-A2.	6.1	2
51	Evaluating lipid mediator structural complexity using ion mobility spectrometry combined with mass spectrometry. Bioanalysis, 2018, 10, 279-289.	1.5	22
52	Towards Discovery and Targeted Peptide Biomarker Detection Using nanoESI-TIMS-TOF MS. Journal of the American Society for Mass Spectrometry, 2018, 29, 817-826.	2.8	31
53	A Customizable Flow Injection System for Automated, High Throughput, and Time Sensitive Ion Mobility Spectrometry and Mass Spectrometry Measurements. Analytical Chemistry, 2018, 90, 737-744.	6.5	11
54	Recent advances in lipid separations and structural elucidation using mass spectrometry combined with ion mobility spectrometry, ion-molecule reactions and fragmentation approaches. Current Opinion in Chemical Biology, 2018, 42, 111-118.	6.1	64

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55	Online Ozonolysis Combined with Ion Mobility-Mass Spectrometry Provides a New Platform for Lipid Isomer Analyses. Analytical Chemistry, 2018, 90, 1292-1300.	6.5	114
56	An algorithm to correct saturated mass spectrometry ion abundances for enhanced quantitation and mass accuracy in omic studies. International Journal of Mass Spectrometry, 2018, 427, 91-99.	1.5	25
57	Unraveling the isomeric heterogeneity of glycans: ion mobility separations in structures for lossless ion manipulations. Chemical Communications, 2018, 54, 11701-11704.	4.1	68
58	Cell type-resolved human lung lipidome reveals cellular cooperation in lung function. Scientific Reports, 2018, 8, 13455.	3.3	31
59	Distinguishing enantiomeric amino acids with chiral cyclodextrin adducts and structures for lossless ion manipulations. Electrophoresis, 2018, 39, 3148-3155.	2.4	35
60	The MPLEx Protocol for Multi-omic Analyses of Soil Samples. Journal of Visualized Experiments, 2018, , .	0.3	19
61	Using Skyline to Analyze Data-Containing Liquid Chromatography, Ion Mobility Spectrometry, and Mass Spectrometry Dimensions. Journal of the American Society for Mass Spectrometry, 2018, 29, 2182-2188.	2.8	55
62	Improved Sensitivity and Separations for Phosphopeptides using Online Liquid Chromotography Coupled with Structures for Lossless Ion Manipulations Ion Mobilityâ€“Mass Spectrometry. Analytical Chemistry, 2018, 90, 10889-10896.	6.5	38
63	Guest editorâ€™s personal foreward. International Journal of Mass Spectrometry, 2018, 427, 1-3.	1.5	0
64	Application of multiplexed ion mobility spectrometry towards the identification of host protein signatures of treatment effect in pulmonary tuberculosis. Tuberculosis, 2018, 112, 52-61.	1.9	20
65	Rapid Ion Mobility Separations of Bile Acid Isomers Using Cyclodextrin Adducts and Structures for Lossless Ion Manipulations. Analytical Chemistry, 2018, 90, 11086-11091.	6.5	44
66	Comparing residential contamination in a Houston environmental justice neighborhood before and after Hurricane Harvey. PLoS ONE, 2018, 13, e0192660.	2.5	56
67	Structural Elucidation of cis/trans Dicaffeoylquinic Acid Photoisomerization Using Ion Mobility Spectrometry-Mass Spectrometry. Journal of Physical Chemistry Letters, 2017, 8, 1381-1388.	4.6	45
68	New frontiers for mass spectrometry based upon structures for lossless ion manipulations. Analyst, The, 2017, 142, 1010-1021.	3.5	95
69	Compression Ratio Ion Mobility Programming (CRIMP) Accumulation and Compression of Billions of Ions for Ion Mobility-Mass Spectrometry Using Traveling Waves in Structures for Lossless Ion Manipulations (SLIM). Analytical Chemistry, 2017, 89, 6432-6439.	6.5	42
70	Ligand induced structural isomerism in phosphine coordinated gold clusters revealed by ion mobility mass spectrometry. Chemical Communications, 2017, 53, 7389-7392.	4.1	31
71	PIXiE: an algorithm for automated ion mobility arrival time extraction and collision cross section calculation using global data association. Bioinformatics, 2017, 33, 2715-2722.	4.1	10
72	Characterizing the lipid and metabolite changes associated with placental function and pregnancy complications using ion mobility spectrometry-mass spectrometry and mass spectrometry imaging. Placenta, 2017, 60, S67-S72.	1.5	20

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73	Serpentine Ultralong Path with Extended Routing (SUPER) High Resolution Traveling Wave Ion Mobility-MS using Structures for Lossless Ion Manipulations. Analytical Chemistry, 2017, 89, 4628-4634.	6.5	162
74	Coupling Front-End Separations, Ion Mobility Spectrometry, and Mass Spectrometry For Enhanced Multidimensional Biological and Environmental Analyses. Annual Review of Analytical Chemistry, 2017, 10, 71-92.	5.4	84
75	Identification of Hip BMD Loss and Fracture Risk Markers Through Population-Based Serum Proteomics. Journal of Bone and Mineral Research, 2017, 32, 1559-1567.	2.8	30
76	Integrating ion mobility spectrometry into mass spectrometry-based exposome measurements: what can it add and how far can it go?. Bioanalysis, 2017, 9, 81-98.	1.5	66
77	Comparing identified and statistically significant lipids and polar metabolites in 15â€year old serum and dried blood spot samples for longitudinal studies. Rapid Communications in Mass Spectrometry, 2017, 31, 447-456.	1.5	31
78	A structural examination and collision cross section database for over 500 metabolites and xenobiotics using drift tube ion mobility spectrometry. Chemical Science, 2017, 8, 7724-7736.	7.4	156
79	An Interlaboratory Evaluation of Drift Tube Ion Mobilityâ€“Mass Spectrometry Collision Cross Section Measurements. Analytical Chemistry, 2017, 89, 9048-9055.	6.5	361
80	Distinguishing<scp>d</scp>- and<scp>l</scp>-aspartic and isoaspartic acids in amyloid Î² peptides with ultrahigh resolution ion mobility spectrometry. Chemical Communications, 2017, 53, 7913-7916.	4.1	56
81	Enhancing glycan isomer separations with metal ions and positive and negative polarity ion mobility spectrometry-mass spectrometry analyses. Analytical and Bioanalytical Chemistry, 2017, 409, 467-476.	3.7	78
82	Profiling microbial lignocellulose degradation and utilization by emergent omics technologies. Critical Reviews in Biotechnology, 2017, 37, 626-640.	9.0	52
83	Lipid and Glycolipid Isomer Analyses Using Ultra-High Resolution Ion Mobility Spectrometry Separations. International Journal of Molecular Sciences, 2017, 18, 183.	4.1	86
84	Conventional and Advanced Separations in Mass Spectrometry-Based Metabolomics: Methodologies and Applications. , 2017, , 376-384.		2
85	Squeezing of Ion Populations and Peaks in Traveling Wave Ion Mobility Separations and Structures for Lossless Ion Manipulations Using Compression Ratio Ion Mobility Programming. Analytical Chemistry, 2016, 88, 11877-11885.	6.5	37
86	SPE-IMS-MS: An automated platform for sub-sixty second surveillance of endogenous metabolites and xenobiotics in biofluids. Clinical Mass Spectrometry, 2016, 2, 1-10.	1.9	63
87	Spatial Ion Peak Compression and its Utility in Ion Mobility Spectrometry. Journal of the American Society for Mass Spectrometry, 2016, 27, 1128-1135.	2.8	13
88	A Structures for Lossless Ion Manipulations (SLIM) Module for Collision Induced Dissociation. Journal of the American Society for Mass Spectrometry, 2016, 27, 1285-1288.	2.8	16
89	Ion Mobility Separations of Isomers based upon Long Path Length Structures for Lossless Ion Manipulations Combined with Mass Spectrometry. ChemistrySelect, 2016, 1, 2396-2399.	1.5	92
90	Simultaneous Proteomic Discovery and Targeted Monitoring using Liquid Chromatography, Ion Mobility Spectrometry, and Mass Spectrometry. Molecular and Cellular Proteomics, 2016, 15, 3694-3705.	3.8	29

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91	The past, present and future of microbiome analyses. Nature Protocols, 2016, 11, 2049-2053.	12.0	59
92	The fungal cultivar of leafâ€cutter ants produces specific enzymes in response to different plant substrates. Molecular Ecology, 2016, 25, 5795-5805.	3.9	37
93	Achieving High Resolution Ion Mobility Separations Using Traveling Waves in Compact Multiturn Structures for Lossless Ion Manipulations. Analytical Chemistry, 2016, 88, 8949-8956.	6.5	52
94	Ultra-High Resolution Ion Mobility Separations Utilizing Traveling Waves in a 13 m Serpentine Path Length Structures for Lossless Ion Manipulations Module. Analytical Chemistry, 2016, 88, 8957-8964.	6.5	136
95	Development of an Ion Mobility Spectrometry-Orbitrap Mass Spectrometer Platform. Analytical Chemistry, 2016, 88, 12152-12160.	6.5	54
96	Greatly Increasing Trapped Ion Populations for Mobility Separations Using Traveling Waves in Structures for Lossless Ion Manipulations. Analytical Chemistry, 2016, 88, 10143-10150.	6.5	25
97	A multi-omic future for microbiome studies. Nature Microbiology, 2016, 1, 16049.	13.3	112
98	Mobility-Selected Ion Trapping and Enrichment Using Structures for Lossless Ion Manipulations. Analytical Chemistry, 2016, 88, 1728-1733.	6.5	41
99	Mass spectrometry-based monitoring of millisecond proteinâ€“ligand binding dynamics using an automated microfluidic platform. Lab on A Chip, 2016, 16, 1544-1548.	6.0	14
100	Surprising impact of remote groups on the foldingâ€“unfolding and dimer-chain equilibria of bifunctional H-bonding unimers. Chemical Communications, 2016, 52, 3773-3776.	4.1	3
101	Uncovering biologically significant lipid isomers with liquid chromatography, ion mobility spectrometry and mass spectrometry. Analyst, The, 2016, 141, 1649-1659.	3.5	196
102	Enhancing bottomâ€up and topâ€down proteomic measurements with ion mobility separations. Proteomics, 2015, 15, 2766-2776.	2.2	54
103	Ion Trapping, Storage, and Ejection in Structures for Lossless Ion Manipulations. Analytical Chemistry, 2015, 87, 6010-6016.	6.5	48
104	Ion manipulations in structures for lossless ion manipulations (SLIM): computational evaluation of a 90Â° turn and a switch. Analyst, The, 2015, 140, 6845-6852.	3.5	40
105	Muscle Segment Homeobox Genes Direct Embryonic Diapause by Limiting Inflammation in the Uterus*. Journal of Biological Chemistry, 2015, 290, 15337-15349.	3.4	18
106	Enhancing biological analyses with three dimensional field asymmetric ion mobility, low field drift tube ion mobility and mass spectrometry (Î¼FAIMS/IMS-MS) separations. Analyst, The, 2015, 140, 6955-6963.	3.5	14
107	Development of a new ion mobility time-of-flight mass spectrometer. International Journal of Mass Spectrometry, 2015, 377, 655-662.	1.5	92
108	Mass Spectrometry for Biomarker Development. Biomarkers in Disease, 2015, , 17-48.	0.1	1

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109	Focus on Advancing High Performance Mass Spectrometry, Honoring Dr. Richard D. Smith, Recipient of the 2013 Award for a Distinguished Contribution in Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 1997-1999.	2.8	0
110	Advancing the High Throughput Identification of Liver Fibrosis Protein Signatures Using Multiplexed Ion Mobility Spectrometry. Molecular and Cellular Proteomics, 2014, 13, 1119-1127.	3.8	51
111	Improving Ion Mobility Measurement Sensitivity by Utilizing Helium in an Ion Funnel Trap. Analytical Chemistry, 2014, 86, 5295-5299.	6.5	21
112	Detecting and Removing Data Artifacts in Hadamard Transform Ion Mobility-Mass Spectrometry Measurements. Journal of the American Society for Mass Spectrometry, 2014, 25, 2020-2027.	2.8	42
113	Mass Spectrometry for Biomarker Development. , 2014, , 1-25.		0
114	Mixed-Isotope Labeling with LC-IMS-MS for Characterization of Proteinâ€“Protein Interactions by Chemical Cross-Linking. Journal of the American Society for Mass Spectrometry, 2013, 24, 444-449.	2.8	24
115	LC-IMS-MS Feature Finder: detecting multidimensional liquid chromatography, ion mobility and mass spectrometry features in complex datasets. Bioinformatics, 2013, 29, 2804-2805.	4.1	32
116	Redox states of Desulfovibrio vulgaris DsrC, a key protein in dissimilatory sulfite reduction. Biochemical and Biophysical Research Communications, 2013, 441, 732-736.	2.1	20
117	Increasing confidence of LCâ€“MS identifications by utilizing ion mobility spectrometry. International Journal of Mass Spectrometry, 2013, 354-355, 312-317.	1.5	27
118	Uterine Deletion of Trp53 Compromises Antioxidant Responses in the Mouse Decidua. Endocrinology, 2012, 153, 4568-4579.	2.8	32
119	Mass spectrometry for translational proteomics: progress and clinical implications. Genome Medicine, 2012, 4, 63.	8.2	71
120	Evaluation of <scp>SDS</scp> depletion using an affinity spin column and <scp>IMS</scp>â€<scp>MS</scp> detection. Proteomics, 2012, 12, 3138-3142.	2.2	26
121	Mass spectrometry-based proteomics: existing capabilities and future directions. Chemical Society Reviews, 2012, 41, 3912.	38.1	351
122	New Developments in LC-MS and Other Hyphenated Techniques. , 2011, , 981-1030.		1
123	Characterization of an ion mobility-multiplexed collision-induced dissociation-tandem time-of-flight mass spectrometry approach. International Journal of Mass Spectrometry, 2010, 293, 34-44.	1.5	30
124	Machine learning based prediction for peptide drift times in ion mobility spectrometry. Bioinformatics, 2010, 26, 1601-1607.	4.1	37
125	An LC-IMS-MS Platform Providing Increased Dynamic Range for High-Throughput Proteomic Studies. Journal of Proteome Research, 2010, 9, 997-1006.	3.7	120
126	A multi-pronged search for a common structural motif in the secretion signal of Salmonella enterica serovar Typhimurium type III effector proteins. Molecular BioSystems, 2010, 6, 2448.	2.9	45

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127	Biases in ion transmission through an electrospray ionization-mass spectrometry capillary inlet. Journal of the American Society for Mass Spectrometry, 2009, 20, 2265-2272.	2.8	52
128	Aminoglycoside antibiotics: A-site specific binding to 16S. International Journal of Mass Spectrometry, 2009, 283, 105-111.	1.5	4
129	DNA Hairpin, Pseudoknot, and Cruciform Stability in a Solvent-Free Environment. Journal of Physical Chemistry B, 2009, 113, 1722-1727.	2.6	37
130	Simultaneous fragmentation of multiple ions using IMS drift time dependent collision energies. Journal of the American Society for Mass Spectrometry, 2008, 19, 411-419.	2.8	43
131	High-resolution separations and improved ion production and transmission in metabolomics. TrAC - Trends in Analytical Chemistry, 2008, 27, 205-214.	11.4	41
132	G-Quadruplex DNA Assemblies: Loop Length, Cation Identity, and Multimer Formation. Journal of the American Chemical Society, 2008, 130, 10208-10216.	13.7	246
133	Stabilization and Structure of Telomeric and c-myc Region Intramolecular G-Quadruplexes:Â The Role of Central Cations and Small Planar Ligands. Journal of the American Chemical Society, 2007, 129, 895-904.	13.7	143
134	Optimization of Algorithms for Ion Mobility Calculations. Journal of Physical Chemistry A, 2007, 111, 2002-2010.	2.5	91
135	B-DNA Helix Stability in a Solvent-Free Environment. Journal of the American Society for Mass Spectrometry, 2007, 18, 1188-1195.	2.8	53
136	Ion mobility spectrometryâ€"mass spectrometry performance using electrodynamic ion funnels and elevated drift gas pressures. Journal of the American Society for Mass Spectrometry, 2007, 18, 1176-1187.	2.8	128
137	PNA/dsDNA Complexes:Â Site Specific Binding and dsDNA Biosensor Applications. Journal of the American Chemical Society, 2006, 128, 8484-8492.	13.7	82
138	Cyclo[n]pyrroles:Â Size and Site-Specific Binding to G-Quadruplexes. Journal of the American Chemical Society, 2006, 128, 2641-2648.	13.7	86
139	G-quadruplexes in telomeric repeats are conserved in a solvent-free environment. International Journal of Mass Spectrometry, 2006, 253, 225-237.	1.5	80
140	Probing Shapes of Bichromophoric Metalâ^'Organic Complexes Using Ion Mobility Mass Spectrometry. Journal of the American Chemical Society, 2005, 127, 18222-18228.	13.7	23
141	Structural characterization of G-quadruplexes in deoxyguanosine clusters using ion mobility mass spectrometry. Journal of the American Society for Mass Spectrometry, 2005, 16, 989-997.	2.8	63
142	Structural motifs of DNA complexes in the gas phase. International Journal of Mass Spectrometry, 2005, 240, 183-193.	1.5	101
143	Structure of Hybrid Polyhedral Oligomeric Silsesquioxane Propyl Methacrylate Oligomers Using Ion Mobility Mass Spectrometry and Molecular Mechanics. Chemistry of Materials, 2005, 17, 2537-2545.	6.7	33
144	Structural Analysis of Metal Interactions with the Dinucleotide Duplex, dCGÂ·dCG, Using Ion Mobility Mass Spectrometry. Journal of Physical Chemistry B, 2005, 109, 4808-4810.	2.6	21

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145	Microstructural and conformational studies of polyether copolymers. International Journal of Mass Spectrometry, 2004, 238, 287-297.	1.5	71
146	Sequence dependent conformations of glycidyl methacrylate/butyl methacrylate copolymers in the gas phase. International Journal of Mass Spectrometry, 2004, 238, 279-286.	1.5	13
147	Isomeric Structural Characterization of Polyhedral Oligomeric Silsesquioxanes (POSS) with Styryl and Epoxy Phenyl Capping Agents. Nano Letters, 2004, 4, 779-785.	9.1	45
148	Sodium stabilization of dinucleotide multiplexes in the gas phase. Physical Chemistry Chemical Physics, 2004, 6, 2786.	2.8	23
149	Duplex Formation and the Onset of Helicity in Poly d(CG)nOligonucleotides in a Solvent-Free Environment. Journal of the American Chemical Society, 2004, 126, 15132-15140.	13.7	119
150	Diastereomer Assignment of an Olefin-Linked Bis-paracyclophane by Ion Mobility Mass Spectrometry. Journal of the American Chemical Society, 2004, 126, 6255-6257.	13.7	18
151	Application of ion mobility to the gas-phase conformational analysis of polyhedral oligomeric silsesquioxanes (POSS). International Journal of Mass Spectrometry, 2003, 222, 63-73.	1.5	47
152	3-Dimensional structural characterization of cationized polyhedral oligomeric silsesquioxanes (POSS) with styryl and phenylethyl capping agents. International Journal of Mass Spectrometry, 2003, 227, 205-216.	1.5	37