

John A Mclean

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161
papers

7,282
citations

46
h-index

80
g-index

174
ext. papers

8,482
ext. citations

6
avg, IF

6.34
L-index

#	Paper	IF	Citations
161	Insights and prospects for ion mobility-mass spectrometry in clinical chemistry.. <i>Expert Review of Proteomics</i> , 2022 ,	4.2	3
160	Accelerating strain phenotyping with desorption electrospray ionization-imaging mass spectrometry and untargeted analysis of intact microbial colonies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
159	Resolving Power and Collision Cross Section Measurement Accuracy of a Prototype High-Resolution Ion Mobility Platform Incorporating Structures for Lossless Ion Manipulation. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1126-1137	3.5	10
158	Probing morphological, genetic and metabolomic changes of in vitro embryo development in a microfluidic device. <i>Biotechnology Progress</i> , 2021 , e3194	2.8	1
157	MYC regulates ribosome biogenesis and mitochondrial gene expression programs through its interaction with host cell factor-1. <i>ELife</i> , 2021 , 10,	8.9	8
156	Multidimensional Separations of Intact Phase II Steroid Metabolites Utilizing LC-Ion Mobility-HRMS. <i>Analytical Chemistry</i> , 2021 , 93, 10990-10998	7.8	4
155	Targeted and Untargeted Mass Spectrometry Reveals the Impact of High-Fat Diet on Peripheral Amino Acid Regulation in a Mouse Model of Alzheimer's Disease. <i>Journal of Proteome Research</i> , 2021 , 20, 4405-4414	5.6	1
154	Chlorpyrifos Disrupts Acetylcholine Metabolism Across Model Blood-Brain Barrier. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 622175	5.8	2
153	High Confidence Shotgun Lipidomics Using Structurally Selective Ion Mobility-Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2021 , 2306, 11-37	1.4	0
152	The acyl chains of phosphoinositide PIP3 alter the structure and function of nuclear receptor steroidogenic factor-1. <i>Journal of Lipid Research</i> , 2021 , 62, 100081	6.3	0
151	Huntington's disease genotype suppresses global manganese-responsive processes in pre-manifest and manifest YAC128 mice. <i>Metallomics</i> , 2020 , 12, 1118-1130	4.5	10
150	Collision Cross Section Conformational Analyses of Bile Acids via Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 ,	3.5	2
149	Resolution of Isomeric Mixtures in Ion Mobility Using a Combined Demultiplexing and Peak Deconvolution Technique. <i>Analytical Chemistry</i> , 2020 , 92, 9482-9492	7.8	30
148	Algal Toxin Goniiodomin A Binds Potassium Ion Selectively to Yield a Conformationally Altered Complex with Potential Biological Consequences. <i>Journal of Natural Products</i> , 2020 , 83, 1069-1081	4.9	4
147	Crowd-Sourced Chemistry: Considerations for Building a Standardized Database to Improve Omic Analyses. <i>ACS Omega</i> , 2020 , 5, 980-985	3.9	2
146	A Solution to Antifolate Resistance in Group B : Untargeted Metabolomics Identifies Human Milk Oligosaccharide-Induced Perturbations That Result in Potentiation of Trimethoprim. <i>MBio</i> , 2020 , 11,	7.8	13
145	Mass spectrometry and ion mobility study of poly(ethylene glycol)-based polyurethane oligomers. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34 Suppl 2, e8662	2.2	1

144	Defining a Molecular Signature for Uropathogenic versus Urocolonizing Escherichia coli: The Status of the Field and New Clinical Opportunities. <i>Journal of Molecular Biology</i> , 2020 , 432, 786-804	6.5	9
143	An Integrative Gene Expression and Mathematical Flux Balance Analysis Identifies Targetable Redox Vulnerabilities in Melanoma Cells. <i>Cancer Research</i> , 2020 , 80, 4565-4577	10.1	3
142	Targeted Strategy to Analyze Antiepileptic Drugs in Human Serum by LC-MS/MS and LC-Ion Mobility-MS. <i>Analytical Chemistry</i> , 2020 , 92, 14648-14656	7.8	5
141	Chemical Class Prediction of Unknown Biomolecules Using Ion Mobility-Mass Spectrometry and Machine Learning: Supervised Inference of Feature Taxonomy from Ensemble Randomization. <i>Analytical Chemistry</i> , 2020 , 92, 10759-10767	7.8	6
140	Data highlighting phenotypic diversity of urine-associated isolates. <i>Data in Brief</i> , 2020 , 31, 105811	1.2	0
139	Evaluating a targeted multiple reaction monitoring approach to global untargeted lipidomic analyses of human plasma. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8911	2.2	9
138	Accumulation of long-chain fatty acids in the tumor microenvironment drives dysfunction in intrapancreatic CD8+ T cells. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	37
137	Translational Roadmap for the Organs-on-a-Chip Industry toward Broad Adoption. <i>Bioengineering</i> , 2020 , 7,	5.3	28
136	Fundamentals of Ion Mobility-Mass Spectrometry for the Analysis of Biomolecules. <i>Methods in Molecular Biology</i> , 2020 , 2084, 1-31	1.4	7
135	Utilizing Untargeted Ion Mobility-Mass Spectrometry To Profile Changes in the Gut Metabolome Following Biliary Diversion Surgery. <i>Analytical Chemistry</i> , 2019 , 91, 14417-14423	7.8	6
134	Collision cross section compendium to annotate and predict multi-omic compound identities. <i>Chemical Science</i> , 2019 , 10, 983-993	9.4	107
133	Recommendations for reporting ion mobility Mass Spectrometry measurements. <i>Mass Spectrometry Reviews</i> , 2019 , 38, 291-320	11	191
132	Alkali Metal Cation Adduct Effect on Polybutylene Adipate Oligomers: Ion Mobility-Mass Spectrometry. <i>Polymer</i> , 2019 , 173, 58-65	3.9	6
131	Evaluating Separation Selectivity and Collision Cross Section Measurement Reproducibility in Helium, Nitrogen, Argon, and Carbon Dioxide Drift Gases for Drift Tube Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 1059-1068	3.5	24
130	Isomeric and Conformational Analysis of Small Drug and Drug-Like Molecules by Ion Mobility-Mass Spectrometry (IM-MS). <i>Methods in Molecular Biology</i> , 2019 , 1939, 161-178	1.4	
129	New Frontiers in Lipidomics Analyses using Structurally Selective Ion Mobility-Mass Spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 116, 316-323	14.6	21
128	Zinc intoxication induces ferroptosis in A549 human lung cells. <i>Metallomics</i> , 2019 , 11, 982-993	4.5	15
127	Predicting Ion Mobility Collision Cross-Sections Using a Deep Neural Network: DeepCCS. <i>Analytical Chemistry</i> , 2019 , 91, 5191-5199	7.8	56

126	Mass Spectrometry of Polyurethanes. <i>Polymer</i> , 2019 , 181,	3.9	7
125	Ion Mobility Mass Spectrometry 2019 , 1-34		2
124	Spatiochemically Profiling Microbial Interactions with Membrane Scaffolded Desorption Electrospray Ionization-Ion Mobility-Imaging Mass Spectrometry and Unsupervised Segmentation. <i>Analytical Chemistry</i> , 2019 , 91, 13703-13711	7.8	11
123	Ion mobility conformational lipid atlas for high confidence lipidomics. <i>Nature Communications</i> , 2019 , 10, 985	17.4	76
122	Determining Double Bond Position in Lipids Using Online Ozonolysis Coupled to Liquid Chromatography and Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 1915-1924	7.8	47
121	Improving the discovery of secondary metabolite natural products using ion mobility-mass spectrometry. <i>Current Opinion in Chemical Biology</i> , 2018 , 42, 160-166	9.7	18
120	Automated flow injection method for the high precision determination of drift tube ion mobility collision cross sections. <i>Analyst, The</i> , 2018 , 143, 1556-1559	5	15
119	Conformational Landscapes of Ubiquitin, Cytochrome c, and Myoglobin: Uniform Field Ion Mobility Measurements in Helium and Nitrogen Drift Gas. <i>International Journal of Mass Spectrometry</i> , 2018 , 427, 79-90	1.9	46
118	An Integrated, High-Throughput Strategy for Multiomic Systems Level Analysis. <i>Journal of Proteome Research</i> , 2018 , 17, 3396-3408	5.6	21
117	Chiral separation of diastereomers of the cyclic nonapeptides vasopressin and desmopressin by uniform field ion mobility mass spectrometry. <i>Chemical Communications</i> , 2018 , 54, 9398-9401	5.8	4
116	Structural Characterization of Methylenedianiline Regioisomers by Ion Mobility-Mass Spectrometry and Tandem Mass Spectrometry. 4. 3-Ring and 4-Ring Isomers. <i>Analytical Chemistry</i> , 2018 , 90, 14453-14461	7.8	3
115	Untargeted Molecular Discovery in Primary Metabolism: Collision Cross Section as a Molecular Descriptor in Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 14484-14492	7.8	50
114	Chiral Separation Strategies in Mass Spectrometry: Integration of Chromatography, Electrophoresis, and Gas-Phase Mobility 2018 , 631-646		3
113	Global untargeted serum metabolomic analyses nominate metabolic pathways responsive to loss of expression of the orphan metallo β -lactamase, MBLAC1. <i>Molecular Omics</i> , 2018 , 14, 142-155	4.4	4
112	Integrated, High-Throughput, Multiomics Platform Enables Data-Driven Construction of Cellular Responses and Reveals Global Drug Mechanisms of Action. <i>Journal of Proteome Research</i> , 2017 , 16, 1364-1375	5.6	25
111	Investigation of the Complete Suite of the Leucine and Isoleucine Isomers: Toward Prediction of Ion Mobility Separation Capabilities. <i>Analytical Chemistry</i> , 2017 , 89, 952-959	7.8	56
110	Ion Mobility Collision Cross Section Compendium. <i>Analytical Chemistry</i> , 2017 , 89, 1032-1044	7.8	98
109	In Utero Exposure to Histological Chorioamnionitis Primes the Exometabolomic Profiles of Preterm CD4 T Lymphocytes. <i>Journal of Immunology</i> , 2017 , 199, 3074-3085	5.3	9

108	Correlating Resolving Power, Resolution, and Collision Cross Section: Unifying Cross-Platform Assessment of Separation Efficiency in Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 12176-12184	7.8	77
107	An Interlaboratory Evaluation of Drift Tube Ion Mobility-Mass Spectrometry Collision Cross Section Measurements. <i>Analytical Chemistry</i> , 2017 , 89, 9048-9055	7.8	233
106	Structural Characterization of Methylenedianiline Regioisomers by Ion Mobility-Mass Spectrometry, Tandem Mass Spectrometry, and Computational Strategies. 3. MALDI Spectra of 2-Ring Isomers. <i>Analytical Chemistry</i> , 2017 , 89, 9900-9910	7.8	5
105	Comparative mass spectrometry-based metabolomics strategies for the investigation of microbial secondary metabolites. <i>Natural Product Reports</i> , 2017 , 34, 6-24	15.1	84
104	Systems-Wide High-Dimensional Data Acquisition and Informatics Using Structural Mass Spectrometry Strategies. <i>Clinical Chemistry</i> , 2016 , 62, 77-83	5.5	23
103	Untargeted Metabolomics Strategies-Challenges and Emerging Directions. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1897-1905	3.5	405
102	Lipid profiling of polarized human monocyte-derived macrophages. <i>Prostaglandins and Other Lipid Mediators</i> , 2016 , 127, 1-8	3.7	24
101	Advanced Multidimensional Separations in Mass Spectrometry: Navigating the Big Data Deluge. <i>Annual Review of Analytical Chemistry</i> , 2016 , 9, 387-409	12.5	59
100	Evaluation of Collision Cross Section Calibrants for Structural Analysis of Lipids by Traveling Wave Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 7329-36	7.8	112
99	Organs-on-Chips as Bridges for Predictive Toxicology. <i>Applied in Vitro Toxicology</i> , 2016 , 2, 97-102	1.3	20
98	Novel behavior of the chromatographic separation of linear and cyclic polymers. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 677-81	4.4	6
97	Aqueous Epoxide Ring-Opening Polymerization (AEROP): Green Synthesis of Polyglycidol with Ultralow Branching. <i>Macromolecules</i> , 2016 , 49, 2022-2027	5.5	19
96	Metabolic consequences of inflammatory disruption of the blood-brain barrier in an organ-on-chip model of the human neurovascular unit. <i>Journal of Neuroinflammation</i> , 2016 , 13, 306	10.1	99
95	Targeting the untargeted in molecular phenomics with structurally-selective ion mobility-mass spectrometry. <i>Current Opinion in Biotechnology</i> , 2016 , 39, 192-197	11.4	22
94	Determination of ion mobility collision cross sections for unresolved isomeric mixtures using tandem mass spectrometry and chemometric deconvolution. <i>Analytica Chimica Acta</i> , 2016 , 939, 64-72	6.6	16
93	Non-derivatized glycan analysis by reverse phase liquid chromatography and ion mobility-mass spectrometry. <i>Analyst</i> , 2015 , 140, 3335-8	5	31
92	Mapping Microbial Response Metabolomes for Induced Natural Product Discovery. <i>ACS Chemical Biology</i> , 2015 , 10, 1998-2006	4.9	68
91	MALDI-TOF/TOF CID Study of Poly(1,4-dihydroxybenzene terephthalate) Fragmentation Reactions. <i>Polymer</i> , 2015 , 64, 100-111	3.9	1

90	Profiling and Imaging Ion Mobility-Mass Spectrometry Analysis of Cholesterol and 7-Dehydrocholesterol in Cells Via Sputtered Silver MALDI. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 924-33	3.5	31
89	Structuring Microbial Metabolic Responses to Multiplexed Stimuli via Self-Organizing Metabolomics Maps. <i>Chemistry and Biology</i> , 2015 , 22, 661-70		36
88	Untargeted metabolic profiling identifies interactions between Huntington's disease and neuronal manganese status. <i>Metallomics</i> , 2015 , 7, 363-70	4.5	24
87	An Iron-Regulated Autolysin Remodels the Cell Wall To Facilitate Heme Acquisition in <i>Staphylococcus lugdunensis</i> . <i>Infection and Immunity</i> , 2015 , 83, 3578-89	3.7	18
86	Ion mobility-mass spectrometry strategies for untargeted systems, synthetic, and chemical biology. <i>Current Opinion in Biotechnology</i> , 2015 , 31, 117-21	11.4	37
85	A uniform field ion mobility study of melittin and implications of low-field mobility for resolving fine cross-sectional detail in peptide and protein experiments. <i>Proteomics</i> , 2015 , 15, 2862-71	4.8	19
84	Real-time cellular exometabolome analysis with a microfluidic-mass spectrometry platform. <i>PLoS ONE</i> , 2015 , 10, e0117685	3.7	20
83	Structural Characterization of Methylenedianiline Regioisomers by Ion Mobility-Mass Spectrometry, Tandem Mass Spectrometry, and Computational Strategies. 2. Electrospray Spectra of 3-Ring and 4-Ring Isomers. <i>Analytical Chemistry</i> , 2015 , 87, 6288-96	7.8	12
82	Broadscale resolving power performance of a high precision uniform field ion mobility-mass spectrometer. <i>Analyst, The</i> , 2015 , 140, 6824-33	5	40
81	Ion mobility-mass spectrometry: time-dispersive instrumentation. <i>Analytical Chemistry</i> , 2015 , 87, 1422-36	36.8	254
80	Wavelet-based peak detection and a new charge inference procedure for MS/MS implemented in ProteoWizard's msConvert. <i>Journal of Proteome Research</i> , 2015 , 14, 1299-307	5.6	27
79	Unusual kinetic isotope effects of deuterium reinforced polyunsaturated fatty acids in tocopherol-mediated free radical chain oxidations. <i>Journal of the American Chemical Society</i> , 2014 , 136, 838-41	16.4	37
78	Conformational ordering of biomolecules in the gas phase: nitrogen collision cross sections measured on a prototype high resolution drift tube ion mobility-mass spectrometer. <i>Analytical Chemistry</i> , 2014 , 86, 2107-16	7.8	287
77	Structural mass spectrometry of tissue extracts to distinguish cancerous and non-cancerous breast diseases. <i>Molecular BioSystems</i> , 2014 , 10, 2827-37		9
76	Structural characterization of methylenedianiline regioisomers by ion mobility-mass spectrometry, tandem mass spectrometry, and computational strategies: I. Electrospray spectra of 2-ring isomers. <i>Analytical Chemistry</i> , 2014 , 86, 4362-70	7.8	21
75	Phenotypic mapping of metabolic profiles using self-organizing maps of high-dimensional mass spectrometry data. <i>Analytical Chemistry</i> , 2014 , 86, 6563-71	7.8	34
74	Phosphorylation of serine 106 in Asef2 regulates cell migration and adhesion turnover. <i>Journal of Proteome Research</i> , 2014 , 13, 3303-13	5.6	4
73	Bond-specific dissociation following excitation energy transfer for distance constraint determination in the gas phase. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13363-70	16.4	37

72	Structural Separations for Natural Product Characterization by Ion Mobility-Mass Spectrometry 2014 , 397-431		
71	Metabolic consequences of interleukin-6 challenge in developing neurons and astroglia. <i>Journal of Neuroinflammation</i> , 2014 , 11, 183	10.1	21
70	Systems-level view of cocaine addiction: the interconnection of the immune and nervous systems. <i>Experimental Biology and Medicine</i> , 2014 , 239, 1433-42	3.7	13
69	Distance geometry protocol to generate conformations of natural products to structurally interpret ion mobility-mass spectrometry collision cross sections. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 13812-20	3.4	8
68	Engineering challenges for instrumenting and controlling integrated organ-on-chip systems. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 682-90	5	130
67	Antimicrobial drug resistance affects broad changes in metabolomic phenotype in addition to secondary metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2336-41	11.5	71
66	Neurovascular unit on a chip: implications for translational applications. <i>Stem Cell Research and Therapy</i> , 2013 , 4 Suppl 1, S18	8.3	48
65	Structural separations by ion mobility-MS for glycomics and glycoproteomics. <i>Methods in Molecular Biology</i> , 2013 , 951, 171-94	1.4	25
64	Glia co-culture with neurons in microfluidic platforms promotes the formation and stabilization of synaptic contacts. <i>Lab on A Chip</i> , 2013 , 13, 3008-21	7.2	80
63	Biomolecular signatures of diabetic wound healing by structural mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 3651-9	7.8	14
62	Semitransparent nanostructured films for imaging mass spectrometry and optical microscopy. <i>Analytical Chemistry</i> , 2012 , 84, 10665-70	7.8	9
61	Combined elemental and biomolecular mass spectrometry imaging for probing the inventory of tissue at a micrometer scale. <i>Analytical Chemistry</i> , 2012 , 84, 3170-8	7.8	50
60	A dual-column solid phase extraction strategy for online collection and preparation of continuously flowing effluent streams for mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 8467-74	7.8	15
59	Multidimensional Separations by Ion Mobility-Mass Spectrometry 2012 ,		1
58	Ion Mobility-Mass Spectrometry 2012 , 411-439		3
57	Ag ₄₄ (SR) ₃₀ (4 ⁻): a silver-thiolate superatom complex. <i>Nanoscale</i> , 2012 , 4, 4269-74	7.7	138
56	Structural mass spectrometry: rapid methods for separation and analysis of peptide natural products. <i>Journal of Natural Products</i> , 2012 , 75, 48-53	4.9	26
55	Gas-Phase Ion Mobility-Mass Spectrometry (IM-MS) and Tandem IM-MS/MS Strategies for Metabolism Studies and Metabolomics 2012 , 1		4

54	Biomimetic monolayer-protected gold nanoparticles for immunorecognition. <i>Nanoscale</i> , 2012 , 4, 3843-51.7	1.7	20
53	Peptide and Protein Analysis Using Ion Mobility Mass Spectrometry 2011 , 139-174		3
52	Lipid analysis and lipidomics by structurally selective ion mobility-mass spectrometry. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011 , 1811, 935-45	5	168
51	Multiplexed Analysis of Peptide Functionality Using Lanthanide-based Structural Shift Reagents. <i>International Journal of Mass Spectrometry</i> , 2011 , 301, 28-32	1.9	10
50	Nanoscale Phase Segregation of Mixed Thiolates on Gold Nanoparticles. <i>Angewandte Chemie</i> , 2011 , 123, 10742-10747	3.6	9
49	Nanoscale phase segregation of mixed thiolates on gold nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10554-9	16.4	68
48	Structural resolution of carbohydrate positional and structural isomers based on gas-phase ion mobility-mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2196-205	3.6	121
47	Dual source ion mobility-mass spectrometer for direct comparison of electrospray ionization and MALDI collision cross section measurements. <i>Analytical Chemistry</i> , 2010 , 82, 3247-54	7.8	24
46	Characterization of thiolate-protected gold nanoparticles by mass spectrometry. <i>Analyst, The</i> , 2010 , 135, 868-74	5	83
45	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, 809-16	3.4	31
44	Structural characterization of phospholipids and peptides directly from tissue sections by MALDI traveling-wave ion mobility-mass spectrometry. <i>Analytical Chemistry</i> , 2010 , 82, 1881-9	7.8	78
43	Identification of phosphorylation sites within the signaling adaptor APPL1 by mass spectrometry. <i>Journal of Proteome Research</i> , 2010 , 9, 1541-8	5.6	17
42	Surface fragmentation of complexes from thiolate protected gold nanoparticles by ion mobility-mass spectrometry. <i>Analytical Chemistry</i> , 2010 , 82, 3061-6	7.8	48
41	A structural mass spectrometry strategy for the relative quantitation of ligands on mixed monolayer-protected gold nanoparticles. <i>Analytical Chemistry</i> , 2010 , 82, 9268-74	7.8	34
40	Structural mass spectrometry analysis of lipid changes in a Drosophila epilepsy model brain. <i>Molecular BioSystems</i> , 2010 , 6, 958-66		20
39	Peptide quantitation using primary amine selective metal chelation labels for mass spectrometry. <i>Chemical Communications</i> , 2010 , 46, 5479-81	5.8	12
38	Structurally selective imaging mass spectrometry by imaging ion mobility-mass spectrometry. <i>Methods in Molecular Biology</i> , 2010 , 656, 363-83	1.4	6
37	The Conformational Landscape of Biomolecules in Ion Mobility Mass Spectrometry 2010 , 327-343		

36	Chiral and structural analysis of biomolecules using mass spectrometry and ion mobility-mass spectrometry. <i>Chirality</i> , 2009 , 21 Suppl 1, E253-64	2.1	52
35	Characterizing ion mobility-mass spectrometry conformation space for the analysis of complex biological samples. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 235-44	4.4	165
34	The mass-mobility correlation redux: the conformational landscape of anhydrous biomolecules. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 1775-81	3.5	77
33	Adenylation enzyme characterization using gamma -(18)O(4)-ATP pyrophosphate exchange. <i>Chemistry and Biology</i> , 2009 , 16, 473-8		41
32	Simultaneous glycoproteomics on the basis of structure using ion mobility-mass spectrometry. <i>Molecular BioSystems</i> , 2009 , 5, 1298-302		43
31	Labeling strategies in mass spectrometry-based protein quantitation. <i>Analyst, The</i> , 2009 , 134, 1525-30	5	18
30	Characterization of Branching in Aramid Polymers Studied by MALDI Ion Mobility/Mass Spectrometry. <i>Macromolecules</i> , 2008 , 41, 8299-8301	5.5	36
29	Enhanced carbohydrate structural selectivity in ion mobility-mass spectrometry analyses by boronic acid derivatization. <i>Chemical Communications</i> , 2008 , 5505-7	5.8	44
28	Biomolecular structural separations by ion mobility-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 905-9	4.4	136
27	Profiling and imaging of tissues by imaging ion mobility-mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2007 , 42, 1099-105	2.2	188
26	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	1.9	9
25	A collision cross-section database of singly-charged peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 1232-8	3.5	75
24	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, 5304-5	16.4	346
23	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, 158-65	3.5	33
22	Ion mobility mass spectrometry: a new paradigm for proteomics. <i>International Journal of Mass Spectrometry</i> , 2005 , 240, 301-315	1.9	262
21	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, 361-7	2.2	78
20	Determination of depleted uranium in urine via isotope ratio measurements using large-bore direct injection high efficiency nebulizer-inductively coupled plasma mass spectrometry. <i>Applied Spectroscopy</i> , 2004 , 58, 1044-50	3.1	18
19	The Influence of Drift Gas Composition on the Separation Mechanism in Traveling Wave Ion Mobility Spectrometry: Insight from Electrodynamic Simulations. <i>International Journal for Ion Mobility Spectrometry</i> , 2003 , 16, 85-94	1.5	21

18	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, 648-54	7.8	35
17	Sub-femtomole peptide detection in ion mobility-time-of-flight mass spectrometry measurements. <i>Journal of Proteome Research</i> , 2003 , 2, 427-30	5.6	32
16	Oligonucleotide analysis with MALDI-ion-mobility-TOFMS. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 373, 612-7	4.4	63
15	Determination of Memory-Prone Elements Using Direct Injection High Efficiency Nebulizer Inductively Coupled Plasma Mass Spectrometry. <i>Applied Spectroscopy</i> , 2002 , 56, 1006-1012	3.1	20
14	Axial inductively coupled plasma time-of-flight mass spectrometry using direct liquid sample introduction. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 669-675	3.7	22
13	Determination of ²³⁶ U/ ²³⁸ U isotope ratio in contaminated environmental samples using different ICP-MS instruments. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 958-964	3.7	64
12	Spatial aerosol characteristics of a direct injection high efficiency nebulizer via optical patterning. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001 , 56, 1113-1126	3.1	21
11	Ultratrace and isotopic analysis of long-lived radionuclides by double-focusing sector field inductively coupled plasma mass spectrometry using direct liquid sample introduction. <i>International Journal of Mass Spectrometry</i> , 2001 , 208, 193-204	1.9	34
10	A direct injection high efficiency nebulizer interface for microbore high-performance liquid chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 852-857	3.7	30
9	Determination of Chromium in Human Lung Fibroblast Cells Using a Large Bore Direct Injection High-Efficiency Nebulizer with Inductively Coupled Plasma Mass Spectrometry. <i>Applied Spectroscopy</i> , 2000 , 54, 659-663	3.1	22
8	A large bore-direct injection high efficiency nebulizer for inductively coupled plasma spectrometry. <i>Analytical Chemistry</i> , 2000 , 72, 1885-93	7.8	62
7	Optical patterning: a technique for three-dimensional aerosol diagnostics. <i>Analytical Chemistry</i> , 2000 , 72, 4796-804	7.8	20
6	Internalization of carcinogenic lead chromate particles by cultured normal human lung epithelial cells: formation of intracellular lead-inclusion bodies and induction of apoptosis. <i>Toxicology and Applied Pharmacology</i> , 1999 , 161, 240-8	4.6	95
5	Ultratrace and isotope analysis of long-lived radionuclides by inductively coupled plasma quadrupole mass spectrometry using a direct injection high efficiency nebulizer. <i>Analytical Chemistry</i> , 1999 , 71, 3077-84	7.8	76
4	Fundamental Properties of Aerosols Produced in Helium by a Direct Injection Nebulizer. <i>Applied Spectroscopy</i> , 1999 , 53, 1331-1340	3.1	20
3	Nebulizer diagnostics: fundamental parameters, challenges, and techniques on the horizon. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 829-842	3.7	64
2	A direct injection high-efficiency nebulizer for inductively coupled plasma mass spectrometry. <i>Analytical Chemistry</i> , 1998 , 70, 1012-20	7.8	141
1	Sensitive Quantitation of Chromium-DNA Adducts by Inductively Coupled Plasma Mass Spectrometry with a Direct Injection High-Efficiency Nebulizer. <i>Toxicological Sciences</i> , 1998 , 46, 260-265	4.4	35

