

John A Mclean

List of Publications by Year in descending order

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161
papers

9,700
citations

38742

50
h-index

43889

91
g-index

174
all docs

174
docs citations

174
times ranked

9024
citing authors

#	ARTICLE	IF	CITATIONS
1	Untargeted Metabolomics Strategies—Challenges and Emerging Directions. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1897-1905.	2.8	789
2	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.	13.7	370
3	An Interlaboratory Evaluation of Drift Tube Ion Mobility—Mass Spectrometry Collision Cross Section Measurements. <i>Analytical Chemistry</i> , 2017, 89, 9048-9055.	6.5	361
4	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, 2107-2116.	6.5	349
5	Ion Mobility-Mass Spectrometry: Time-Dispersive Instrumentation. <i>Analytical Chemistry</i> , 2015, 87, 1422-1436.	6.5	322
6	Recommendations for reporting ion mobility Mass Spectrometry measurements. <i>Mass Spectrometry Reviews</i> , 2019, 38, 291-320.	5.4	315
7	Ion mobility—mass spectrometry: a new paradigm for proteomics. <i>International Journal of Mass Spectrometry</i> , 2005, 240, 301-315.	1.5	282
8	Profiling and imaging of tissues by imaging ion mobility—mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1099-1105.	1.6	202
9	Collision cross section compendium to annotate and predict multi-omic compound identities. <i>Chemical Science</i> , 2019, 10, 983-993.	7.4	196
10	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, 935-945.	2.4	192
11	Characterizing ion mobility-mass spectrometry conformation space for the analysis of complex biological samples. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 235-244.	3.7	184
12	A Direct Injection High-Efficiency Nebulizer for Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 1998, 70, 1012-1020.	6.5	176
13	Engineering Challenges for Instrumenting and Controlling Integrated Organ-on-Chip Systems. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 682-690.	4.2	155
14	Ag ₄₄ (SR) ₃₀₄ ⁺ : a silver—thiolate superatom complex. <i>Nanoscale</i> , 2012, 4, 4269.	5.6	154
15	Evaluation of Collision Cross Section Calibrants for Structural Analysis of Lipids by Traveling Wave Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 7329-7336.	6.5	148
16	Biomolecular structural separations by ion mobility—mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 905-909.	3.7	147
17	Structural resolution of carbohydrate positional and structural isomers based on gas-phase ion mobility-mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2196-2205.	2.8	142
18	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, .	8.5	142

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19	Ion Mobility Collision Cross Section Compendium. <i>Analytical Chemistry</i> , 2017, 89, 1032-1044.	6.5	131
20	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.	7.2	129
21	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.	6.5	126
22	Comparative mass spectrometry-based metabolomics strategies for the investigation of microbial secondary metabolites. <i>Natural Product Reports</i> , 2017, 34, 6-24.	10.3	122
23	Predicting Ion Mobility Collision Cross-Sections Using a Deep Neural Network: DeepCCS. <i>Analytical Chemistry</i> , 2019, 91, 5191-5199.	6.5	121
24	Ion mobility conformational lipid atlas for high confidence lipidomics. <i>Nature Communications</i> , 2019, 10, 985.	12.8	121
25	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, 240-248.	2.8	105
26	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.	6.0	99
27	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, 3077-3084.	6.5	92
28	Characterization of thiolate-protected gold nanoparticles by mass spectrometry. <i>Analyst</i> , The, 2010, 135, 868.	3.5	90
29	Structural Characterization of Phospholipids and Peptides Directly from Tissue Sections by MALDI Traveling-Wave Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 1881-1889.	6.5	88
30	The mass-mobility correlation redux: The conformational landscape of anhydrous biomolecules. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1775-1781.	2.8	84
31	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.	1.6	83
32	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.	6.5	83
33	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, 2336-2341.	7.1	80
34	Mapping Microbial Response Metabolomes for Induced Natural Product Discovery. <i>ACS Chemical Biology</i> , 2015, 10, 1998-2006.	3.4	79
35	Nebulizer diagnostics: fundamental parameters, challenges, and techniques on the horizon. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 829-842.	3.0	77
36	A collision cross-section database of singly-charged peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1232-1238.	2.8	77

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37	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.	3.0	76
38	A Large Bore-Direct Injection High Efficiency Nebulizer for Inductively Coupled Plasma Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 1885-1893.	6.5	74
39	Nanoscale Phase Segregation of Mixed Thiolates on Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10554-10559.	13.8	74
40	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.	6.5	74
41	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.	1.5	71
42	Oligonucleotide analysis with MALDI- ⁺ ion-mobility-TOFMS. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 612-617.	3.7	70
43	Advanced Multidimensional Separations in Mass Spectrometry: Navigating the Big Data Deluge. <i>Annual Review of Analytical Chemistry</i> , 2016, 9, 387-409.	5.4	70
44	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.	6.5	69
45	Resolution of Isomeric Mixtures in Ion Mobility Using a Combined Demultiplexing and Peak Deconvolution Technique. <i>Analytical Chemistry</i> , 2020, 92, 9482-9492.	6.5	68
46	Chiral and structural analysis of biomolecules using mass spectrometry and ion mobility-mass spectrometry. <i>Chirality</i> , 2009, 21, E253-64.	2.6	57
47	Combined Elemental and Biomolecular Mass Spectrometry Imaging for Probing the Inventory of Tissue at a Micrometer Scale. <i>Analytical Chemistry</i> , 2012, 84, 3170-3178.	6.5	56
48	Neurovascular unit on a chip: implications for translational applications. <i>Stem Cell Research and Therapy</i> , 2013, 4, S18.	5.5	56
49	Surface Fragmentation of Complexes from Thiolate Protected Gold Nanoparticles by Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 3061-3066.	6.5	53
50	Adenylation Enzyme Characterization Using ¹³ C- ¹⁸ O-ATP Pyrophosphate Exchange. <i>Chemistry and Biology</i> , 2009, 16, 473-478.	6.0	52
51	Translational Roadmap for the Organs-on-a-Chip Industry toward Broad Adoption. <i>Bioengineering</i> , 2020, 7, 112.	3.5	52
52	Enhanced carbohydrate structural selectivity in ion mobility-mass spectrometry analyses by boronic acid derivatization. <i>Chemical Communications</i> , 2008, , 5505.	4.1	47
53	Simultaneous glycoproteomics on the basis of structure using ion mobility-mass spectrometry. <i>Molecular BioSystems</i> , 2009, 5, 1298.	2.9	47
54	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.	1.5	46

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55	Broadscale resolving power performance of a high precision uniform field ion mobility-mass spectrometer. <i>Analyst, The</i> , 2015, 140, 6824-6833.	3.5	45
56	MYC regulates ribosome biogenesis and mitochondrial gene expression programs through its interaction with host cell factorâ€1. <i>ELife</i> , 2021, 10, .	6.0	45
57	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, 924-933.	2.8	43
58	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.	2.8	43
59	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.	3.0	42
60	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, 838-841.	13.7	42
61	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, 13363-13370.	13.7	40
62	Structuring Microbial Metabolic Responses to Multiplexed Stimuli via Self-Organizing Metabolomics Maps. <i>Chemistry and Biology</i> , 2015, 22, 661-670.	6.0	40
63	Ion mobility-mass spectrometry strategies for untargeted systems, synthetic, and chemical biology. <i>Current Opinion in Biotechnology</i> , 2015, 31, 117-121.	6.6	39
64	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.	3.1	38
65	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.	6.5	38
66	Wavelet-Based Peak Detection and a New Charge Inference Procedure for MS/MS Implemented in ProteoWizardâ€™s msConvert. <i>Journal of Proteome Research</i> , 2015, 14, 1299-1307.	3.7	38
67	Characterization of Branching in Aramid Polymers Studied by MALDIâ€™Ion Mobility/Mass Spectrometry. <i>Macromolecules</i> , 2008, 41, 8299-8301.	4.8	37
68	A Structural Mass Spectrometry Strategy for the Relative Quantitation of Ligands on Mixed Monolayer-Protected Gold Nanoparticles. <i>Analytical Chemistry</i> , 2010, 82, 9268-9274.	6.5	37
69	Phenotypic Mapping of Metabolic Profiles Using Self-Organizing Maps of High-Dimensional Mass Spectrometry Data. <i>Analytical Chemistry</i> , 2014, 86, 6563-6571.	6.5	37
70	New frontiers in lipidomics analyses using structurally selective ion mobility-mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 116, 316-323.	11.4	37
71	Zinc intoxication induces ferroptosis in A549 human lung cells. <i>Metallomics</i> , 2019, 11, 982-993.	2.4	37
72	Untargeted metabolic profiling identifies interactions between Huntington's disease and neuronal manganese status. <i>Metallomics</i> , 2015, 7, 363-370.	2.4	36

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73	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.	2.8	35
74	Determination of Chromium in Human Lung Fibroblast Cells Using a Large Boreâ€”Direct Injection High-Efficiency Nebulizer with Inductively Coupled Plasma Mass Spectrometry. <i>Applied Spectroscopy</i> , 2000, 54, 659-663.	2.2	34
75	Non-derivatized glycan analysis by reverse phase liquid chromatography and ion mobility-mass spectrometry. <i>Analyst, The</i> , 2015, 140, 3335-3338.	3.5	34
76	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.	3.7	34
77	Sub-Femtomole Peptide Detection in Ion Mobility-Time-of-Flight Mass Spectrometry Measurements. <i>Journal of Proteome Research</i> , 2003, 2, 427-430.	3.7	33
78	Structural Mass Spectrometry: Rapid Methods for Separation and Analysis of Peptide Natural Products. <i>Journal of Natural Products</i> , 2012, 75, 48-53.	3.0	32
79	An Integrated, High-Throughput Strategy for Multiomic Systems Level Analysis. <i>Journal of Proteome Research</i> , 2018, 17, 3396-3408.	3.7	32
80	Evaluating Separation Selectivity and Collision Cross Section Measurement Reproducibility in Helium, Nitrogen, Argon, and Carbon Dioxide Drift Gases for Drift Tube Ion Mobilityâ€”Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1059-1068.	2.8	32
81	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.	2.6	31
82	Lipid profiling of polarized human monocyte-derived macrophages. <i>Prostaglandins and Other Lipid Mediators</i> , 2016, 127, 1-8.	1.9	31
83	Structural Separations by Ion Mobility-MS for Glycomics and Glycoproteomics. <i>Methods in Molecular Biology</i> , 2013, 951, 171-194.	0.9	29
84	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.	3.0	28
85	Metabolic consequences of interleukin-6 challenge in developing neurons and astroglia. <i>Journal of Neuroinflammation</i> , 2014, 11, 183.	7.2	28
86	Determination of Memory-Prone Elements Using Direct Injection High Efficiency Nebulizer Inductively Coupled Plasma Mass Spectrometry. <i>Applied Spectroscopy</i> , 2002, 56, 1006-1012.	2.2	26
87	Dual Source Ion Mobility-Mass Spectrometer for Direct Comparison of Electrospray Ionization and MALDI Collision Cross Section Measurements. <i>Analytical Chemistry</i> , 2010, 82, 3247-3254.	6.5	26
88	Targeting the untargeted in molecular phenomics with structurally-selective ion mobility-mass spectrometry. <i>Current Opinion in Biotechnology</i> , 2016, 39, 192-197.	6.6	25
89	Systems-Wide High-Dimensional Data Acquisition and Informatics Using Structural Mass Spectrometry Strategies. <i>Clinical Chemistry</i> , 2016, 62, 77-83.	3.2	25
90	A Solution to Antifolate Resistance in Group B Streptococcus : Untargeted Metabolomics Identifies Human Milk Oligosaccharide-Induced Perturbations That Result in Potentiation of Trimethoprim. <i>MBio</i> , 2020, 11, .	4.1	25

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91	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.	2.9	24
92	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> , 2013, 16, 85-94.	1.4	24
93	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, 4362-4370.	6.5	24
94	Real-Time Cellular Exometabolome Analysis with a Microfluidic-Mass Spectrometry Platform. <i>PLoS ONE</i> , 2015, 10, e0117685.	2.5	24
95	Fundamental Properties of Aerosols Produced in Helium by a Direct Injection Nebulizer. <i>Applied Spectroscopy</i> , 1999, 53, 1331-1340.	2.2	23
96	Optical Patterning: A Technique for Three-Dimensional Aerosol Diagnostics. <i>Analytical Chemistry</i> , 2000, 72, 4796-4804.	6.5	23
97	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, 1044-1050.	2.2	23
98	Structural mass spectrometry analysis of lipid changes in a <i>Drosophila</i> epilepsy model brain. <i>Molecular BioSystems</i> , 2010, 6, 958.	2.9	23
99	An Iron-Regulated Autolysin Remodels the Cell Wall To Facilitate Heme Acquisition in <i>Staphylococcus lugdunensis</i> . <i>Infection and Immunity</i> , 2015, 83, 3578-3589.	2.2	23
100	Organs-on-Chips as Bridges for Predictive Toxicology. <i>Applied in Vitro Toxicology</i> , 2016, 2, 97-102.	1.1	23
101	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.	6.5	23
102	Biomimetic monolayer-protected gold nanoparticles for immunorecognition. <i>Nanoscale</i> , 2012, 4, 3843.	5.6	22
103	Aqueous Epoxide Ring-Opening Polymerization (AEROP): Green Synthesis of Polyglycidol with Ultralow Branching. <i>Macromolecules</i> , 2016, 49, 2022-2027.	4.8	22
104	Improving the discovery of secondary metabolite natural products using ion mobility mass spectrometry. <i>Current Opinion in Chemical Biology</i> , 2018, 42, 160-166.	6.1	22
105	Labeling strategies in mass spectrometry-based protein quantitation. <i>Analyst, The</i> , 2009, 134, 1525.	3.5	20
106	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, 2862-2871.	2.2	20
107	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, 6288-6296.	6.5	20
108	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.	1.5	20

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109	Identification of Phosphorylation Sites within the Signaling Adaptor APPL1 by Mass Spectrometry. <i>Journal of Proteome Research</i> , 2010, 9, 1541-1548.	3.7	19
110	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.	5.4	19
111	Defining a Molecular Signature for Uropathogenic versus Urocolonizing <i>Escherichia coli</i> : The Status of the Field and New Clinical Opportunities. <i>Journal of Molecular Biology</i> , 2020, 432, 786-804.	4.2	19
112	Biomolecular Signatures of Diabetic Wound Healing by Structural Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 3651-3659.	6.5	18
113	Automated flow injection method for the high precision determination of drift tube ion mobility collision cross sections. <i>Analyst</i> , 2018, 143, 1556-1559.	3.5	18
114	Mass spectrometry of polyurethanes. <i>Polymer</i> , 2019, 181, 121624.	3.8	18
115	Multidimensional Separations of Intact Phase II Steroid Metabolites Utilizing LC-IM-MS. <i>Analytical Chemistry</i> , 2021, 93, 10990-10998.	6.5	18
116	Huntington's disease genotype suppresses global manganese-responsive processes in pre-manifest and manifest YAC128 mice. <i>Metallomics</i> , 2020, 12, 1118-1130.	2.4	17
117	Fundamentals of Ion Mobility-Mass Spectrometry for the Analysis of Biomolecules. <i>Methods in Molecular Biology</i> , 2020, 2084, 1-31.	0.9	17
118	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, 8467-8474.	6.5	16
119	Systems-level view of cocaine addiction: The interconnection of the immune and nervous systems. <i>Experimental Biology and Medicine</i> , 2014, 239, 1433-1442.	2.4	16
120	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.	6.5	13
121	Collision Cross Section Conformational Analyses of Bile Acids via Ion Mobility-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1625-1631.	2.8	13
122	Collision Cross-Section Calibration Strategy for Lipid Measurements in SLIM-Based High-Resolution Ion Mobility. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1229-1237.	2.8	13
123	Peptide quantitation using primary amine selective metal chelation labels for mass spectrometry. <i>Chemical Communications</i> , 2010, 46, 5479.	4.1	12
124	In Utero Exposure to Histological Chorioamnionitis Primes the Exometabolomic Profiles of Preterm CD4+ T Lymphocytes. <i>Journal of Immunology</i> , 2017, 199, 3074-3085.	0.8	12
125	Alkali metal cation adduct effect on polybutylene adipate oligomers: Ion mobility-mass spectrometry. <i>Polymer</i> , 2019, 173, 58-65.	3.8	12
126	Multiplexed analysis of peptide functionality using lanthanide-based structural shift reagents. <i>International Journal of Mass Spectrometry</i> , 2011, 307, 28-32.	1.5	11

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127	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.	2.8	11
128	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.	1.5	10
129	Structural mass spectrometry of tissue extracts to distinguish cancerous and non-cancerous breast diseases. <i>Molecular BioSystems</i> , 2014, 10, 2827-2837.	2.9	10
130	Semitransparent Nanostructured Films for Imaging Mass Spectrometry and Optical Microscopy. <i>Analytical Chemistry</i> , 2012, 84, 10665-10670.	6.5	9
131	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, 13812-13820.	2.6	9
132	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.	6.5	9
133	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.	6.5	9
134	Data highlighting phenotypic diversity of urine-associated <i>Escherichia coli</i> isolates. <i>Data in Brief</i> , 2020, 31, 105811.	1.0	9
135	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.	3.0	9
136	High Confidence Shotgun Lipidomics Using Structurally Selective Ion Mobility-Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2021, 2306, 11-37.	0.9	8
137	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, .	7.1	8
138	Novel behavior of the chromatographic separation of linear and cyclic polymers. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 677-681.	3.7	7
139	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.	4.1	7
140	Chlorpyrifos Disrupts Acetylcholine Metabolism Across Model Blood-Brain Barrier. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 622175.	4.1	7
141	Structurally Selective Imaging Mass Spectrometry by Imaging Ion Mobility-Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2010, 656, 363-383.	0.9	7
142	Insights and prospects for ion mobility-mass spectrometry in clinical chemistry. <i>Expert Review of Proteomics</i> , 2022, , 1-15.	3.0	7
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.	0.9	6
144	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.	3.7	6

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