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List of Publications by Year in descending order

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59
papers

3,592
citations

218592

26
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155592

55
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63
all docs

63
docs citations

63
times ranked

2549
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights and prospects for ion mobility-mass spectrometry in clinical chemistry. Expert Review of Proteomics, 2022, , 1-15.	1.3	7
2	Improving confidence in lipidomic annotations by incorporating empirical ion mobility regression analysis and chemical class prediction. Bioinformatics, 2022, 38, 2872-2879.	1.8	5
3	Enantiomer Differentiation of Amino Acid Stereoisomers by Structural Mass Spectrometry Using Noncovalent Trinuclear Copper Complexes. Journal of the American Society for Mass Spectrometry, 2022, 33, 996-1002.	1.2	3
4	Collision Cross-Section Calibration Strategy for Lipid Measurements in SLIM-Based High-Resolution Ion Mobility. Journal of the American Society for Mass Spectrometry, 2022, 33, 1229-1237.	1.2	13
5	Preparation and characterization of discrete mass polyether-based polyurethane oligomers. Polymer, 2022, 254, 125069.	1.8	2
6	Resolving Power and Collision Cross Section Measurement Accuracy of a Prototype High-Resolution Ion Mobility Platform Incorporating Structures for Lossless Ion Manipulation. Journal of the American Society for Mass Spectrometry, 2021, 32, 1126-1137.	1.2	43
7	Multidimensional Separations of Intact Phase II Steroid Metabolites Utilizing LC-IMS-MS. Analytical Chemistry, 2021, 93, 10990-10998.	3.2	18
8	Chlorpyrifos Disrupts Acetylcholine Metabolism Across Model Blood-Brain Barrier. Frontiers in Bioengineering and Biotechnology, 2021, 9, 622175.	2.0	7
9	High Confidence Shotgun Lipidomics Using Structurally Selective Ion Mobility-Mass Spectrometry. Methods in Molecular Biology, 2021, 2306, 11-37.	0.4	8
10	Accelerating strain phenotyping with desorption electrospray ionization-imaging mass spectrometry and untargeted analysis of intact microbial colonies. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
11	Mass spectrometry and ion mobility study of poly(ethylene glycol)-based polyurethane oligomers. Rapid Communications in Mass Spectrometry, 2020, 34, e8662.	0.7	5
12	Chemical Class Prediction of Unknown Biomolecules Using Ion Mobility-Mass Spectrometry and Machine Learning: Supervised Inference of Feature Taxonomy from Ensemble Randomization. Analytical Chemistry, 2020, 92, 10759-10767.	3.2	13
13	Resolution of Isomeric Mixtures in Ion Mobility Using a Combined Demultiplexing and Peak Deconvolution Technique. Analytical Chemistry, 2020, 92, 9482-9492.	3.2	68
14	Algal Toxin Goniodomin A Binds Potassium Ion Selectively to Yield a Conformationally Altered Complex with Potential Biological Consequences. Journal of Natural Products, 2020, 83, 1069-1081.	1.5	9
15	Crowd-Sourced Chemistry: Considerations for Building a Standardized Database to Improve Omic Analyses. ACS Omega, 2020, 5, 980-985.	1.6	5
16	Fundamentals of Ion Mobility-Mass Spectrometry for the Analysis of Biomolecules. Methods in Molecular Biology, 2020, 2084, 1-31.	0.4	17
17	Mass spectrometry of polyurethanes. Polymer, 2019, 181, 121624.	1.8	18
18	Collision cross section compendium to annotate and predict multi-omic compound identities. Chemical Science, 2019, 10, 983-993.	3.7	196

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19	Recommendations for reporting ion mobility Mass Spectrometry measurements. <i>Mass Spectrometry Reviews</i> , 2019, 38, 291-320.	2.8	315
20	Alkali metal cation adduct effect on polybutylene adipate oligomers: Ion mobility-mass spectrometry. <i>Polymer</i> , 2019, 173, 58-65.	1.8	12
21	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.	1.2	32
22	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.	0.4	1
23	New frontiers in lipidomics analyses using structurally selective ion mobility-mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 116, 316-323.	5.8	37
24	Predicting Ion Mobility Collision Cross-Sections Using a Deep Neural Network: DeepCCS. <i>Analytical Chemistry</i> , 2019, 91, 5191-5199.	3.2	121
25	Ion mobility conformational lipid atlas for high confidence lipidomics. <i>Nature Communications</i> , 2019, 10, 985.	5.8	121
26	Organotypic Neurovascular Unit and Electrochemical Platform for Predictive Toxicology. <i>ECS Meeting Abstracts</i> , 2019, MA2019-02, 2423-2423.	0.0	0
27	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.	3.2	69
28	Automated flow injection method for the high precision determination of drift tube ion mobility collision cross sections. <i>Analyst</i> , 2018, 143, 1556-1559.	1.7	18
29	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.	0.7	71
30	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.	3.2	4
31	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.	3.2	83
32	Chiral Separation Strategies in Mass Spectrometry: Integration of Chromatography, Electrophoresis, and Gas-Phase Mobility. , 2018, , 631-646.		3
33	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.	2.2	7
34	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.	3.2	74
35	Ion Mobility Collision Cross Section Compendium. <i>Analytical Chemistry</i> , 2017, 89, 1032-1044.	3.2	131
36	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.	3.2	126

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37	An Interlaboratory Evaluation of Drift Tube Ion Mobility–Mass Spectrometry Collision Cross Section Measurements. <i>Analytical Chemistry</i> , 2017, 89, 9048-9055.	3.2	361
38	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.	3.2	5
39	Targeting the untargeted in molecular phenomics with structurally-selective ion mobility-mass spectrometry. <i>Current Opinion in Biotechnology</i> , 2016, 39, 192-197.	3.3	25
40	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.	2.6	19
41	Advanced Multidimensional Separations in Mass Spectrometry: Navigating the Big Data Deluge. <i>Annual Review of Analytical Chemistry</i> , 2016, 9, 387-409.	2.8	70
42	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.	3.2	148
43	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.	1.3	20
44	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.	3.2	20
45	Broadscale resolving power performance of a high precision uniform field ion mobility-mass spectrometer. <i>Analyst, The</i> , 2015, 140, 6824-6833.	1.7	45
46	Ion Mobility-Mass Spectrometry: Time-Dispersive Instrumentation. <i>Analytical Chemistry</i> , 2015, 87, 1422-1436.	3.2	322
47	Non-derivatized glycan analysis by reverse phase liquid chromatography and ion mobility-mass spectrometry. <i>Analyst, The</i> , 2015, 140, 3335-3338.	1.7	34
48	Ion mobility-mass spectrometry strategies for untargeted systems, synthetic, and chemical biology. <i>Current Opinion in Biotechnology</i> , 2015, 31, 117-121.	3.3	39
49	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.	3.2	349
50	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.	3.2	24
51	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
52	Neurovascular unit on a chip: implications for translational applications. <i>Stem Cell Research and Therapy</i> , 2013, 4, S18.	2.4	56
53	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.	1.2	192
54	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

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55	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.	3.2	26
56	A Cryogenic-Temperature Ion Mobility Mass Spectrometer for Improved Ion Mobility Resolution. , 2010, , 137-151.		1
57	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
58	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
59	Reactions of Cu+(1S,3D) and Au+(1S,3D) with CH3Br. <i>Journal of Physical Chemistry A</i> , 2003, 107, 2209-2215.	1.1	29