

Kevin Giles

List of Publications by Year in descending order

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46
papers

5,654
citations

147801

31
h-index

214800

47
g-index

47
all docs

47
docs citations

47
times ranked

3828
citing authors

#	ARTICLE	IF	CITATIONS
1	An investigation of the mobility separation of some peptide and protein ions using a new hybrid quadrupole/travelling wave IMS/oa-ToF instrument. <i>International Journal of Mass Spectrometry</i> , 2007, 261, 1-12.	1.5	749
2	Collision Cross Sections of Proteins and Their Complexes: A Calibration Framework and Database for Gas-Phase Structural Biology. <i>Analytical Chemistry</i> , 2010, 82, 9557-9565.	6.5	694
3	Applications of a travelling wave-based radio-frequency-only stacked ring ion guide. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2401-2414.	1.5	632
4	Evidence for Macromolecular Protein Rings in the Absence of Bulk Water. <i>Science</i> , 2005, 310, 1658-1661.	12.6	551
5	Enhancements in travelling wave ion mobility resolution. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1559-1566.	1.5	334
6	Recommendations for reporting ion mobility Mass Spectrometry measurements. <i>Mass Spectrometry Reviews</i> , 2019, 38, 291-320.	5.4	315
7	A Cyclic Ion Mobility-Mass Spectrometry System. <i>Analytical Chemistry</i> , 2019, 91, 8564-8573.	6.5	286
8	Ion Mobility-Mass Spectrometry Reveals Long-Lived, Unfolded Intermediates in the Dissociation of Protein Complexes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8001-8004.	13.8	213
9	Monitoring copopulated conformational states during protein folding events using electrospray ionization-ion mobility spectrometry-mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2180-2190.	2.8	122
10	Characterization of simple isomeric oligosaccharides and the rapid separation of glycan mixtures by ion mobility mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2010, 298, 119-127.	1.5	114
11	Ion Mobility Separation Coupled with MS Detects Two Structural States of Alzheimer's Disease A β 40 Peptide Oligomers. <i>Journal of Molecular Biology</i> , 2011, 407, 110-124.	4.2	101
12	Ion mobility mass spectrometry of peptide, protein, and protein complex ions using a radio-frequency confining drift cell. <i>Analyst</i> , 2016, 141, 884-891.	3.5	98
13	Cyclic Ion Mobility Mass Spectrometry Distinguishes Anomers and Open-Ring Forms of Pentasaccharides. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1028-1037.	2.8	92
14	Application of the Mason-Schamp Equation and Ion Mobility Mass Spectrometry To Identify Structurally Related Compounds in Crude Oil. <i>Analytical Chemistry</i> , 2011, 83, 77-83.	6.5	90
15	Resolving Structural Isomers of Monosaccharide Methyl Glycosides Using Drift Tube and Traveling Wave Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 3231-3239.	6.5	88
16	Identifying key membrane protein lipid interactions using mass spectrometry. <i>Nature Protocols</i> , 2018, 13, 1106-1120.	12.0	85
17	Evidence for structural variants of a- and b-type peptide fragment ions using combined ion mobility/mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 609-613.	2.8	80
18	A method for direct measurement of ion mobilities using a travelling wave ion guide. <i>International Journal of Mass Spectrometry</i> , 2010, 298, 10-16.	1.5	74

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19	Combining density functional theory (DFT) and collision cross-section (CCS) calculations to analyze the gas-phase behaviour of small molecules and their protonation site isomers. <i>Analyst</i> , The, 2016, 141, 4044-4054.	3.5	74
20	Are liquid chromatography/electrospray tandem quadrupole fragmentation ratios unequivocal confirmation criteria?. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 985-998.	1.5	73
21	Isomer separation and gas-phase configurations of organoruthenium anticancer complexes: Ion mobility mass spectrometry and modeling. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1119-1122.	2.8	73
22	Evaluating the utility of ion mobility separation in combination with high-pressure liquid chromatography/mass spectrometry to facilitate detection of trace impurities in formulated drug products. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1255-1263.	1.5	58
23	Gas Phase Stability of Protein Ions in a Cyclic Ion Mobility Spectrometry Traveling Wave Device. <i>Analytical Chemistry</i> , 2019, 91, 7554-7561.	6.5	58
24	Elucidating Molecular Structures of Nonalkylated and Short-Chain Alkyl (<i>n</i> <i>≤ 5</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 552 Td ((Mobility and Ultrahigh-Resolution Mass Spectrometries and Theoretical Collisional Cross-Section Calculations. <i>Analytical Chemistry</i> , 2014, 86, 3300-3307.	6.5	53
25	New High Resolution Ion Mobility Mass Spectrometer Capable of Measurements of Collision Cross Sections from 150 to 520 K. <i>Analytical Chemistry</i> , 2016, 88, 9469-9478.	6.5	52
26	UV photodissociation of trapped ions following ion mobility separation in a Q-ToF mass spectrometer. <i>Analyst</i> , The, 2014, 139, 6348-6351.	3.5	45
27	Investigations into the performance of travelling wave enabled conventional and cyclic ion mobility systems to characterise protomers of fluoroquinolone antibiotic residues. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 11-21.	1.5	40
28	A Massâ€Spectrometryâ€Based Modelling Workflow for Accurate Prediction of IgG Antibody Conformations in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17194-17199.	13.8	39
29	Ozoneâ€Induced dissociation on a traveling wave highâ€resolution mass spectrometer for determination of doubleâ€bond position in lipids. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1415-1423.	1.5	38
30	Isolation of Crude Oil Peaks Differing by <i>m</i>/<i>z</i> âˆ¼0.1 via Tandem Mass Spectrometry Using a Cyclic Ion Mobility-Mass Spectrometer. <i>Analytical Chemistry</i> , 2019, 91, 14268-14274.	6.5	33
31	Structure Determination of Large Isomeric Oligosaccharides of Natural Origin through Multipass and Multistage Cyclic Traveling-Wave Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 12030-12037.	6.5	33
32	Collision Cross Sections of Charge-Reduced Proteins and Protein Complexes: A Database for Collision Cross Section Calibration. <i>Analytical Chemistry</i> , 2020, 92, 4475-4483.	6.5	32
33	Studies of peptide a- and b-type fragment ions using stable isotope labeling and integrated ion mobility/tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1781-1787.	2.8	30
34	Historical, current and future developments of travelling wave ion mobility mass spectrometry: A personal perspective. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115620.	11.4	27
35	Cyclic Ion Mobilityâ€Collision Activation Experiments Elucidate Protein Behavior in the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1545-1552.	2.8	27
36	LESA Cyclic Ion Mobility Mass Spectrometry of Intact Proteins from Thin Tissue Sections. <i>Analytical Chemistry</i> , 2020, 92, 6321-6326.	6.5	23

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37	Nanospray Ion Mobility Mass Spectrometry of Selected High Mass Species. <i>Methods in Molecular Biology</i> , 2011, 790, 57-70.	0.9	19
38	QconCAT Standard for Calibration of Ion Mobility-Mass Spectrometry Systems. <i>Journal of Proteome Research</i> , 2012, 11, 5564-5572.	3.7	18
39	Combining tandem mass spectrometry with ion mobility separation to determine the architecture of polydisperse proteins. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 663-671.	1.5	16
40	Travelling wave ion mobility. <i>International Journal for Ion Mobility Spectrometry</i> , 2013, 16, 1-3.	1.4	15
41	High-Resolution IMS-MS to Assign Additional Disulfide Bridge Pairing in Complementarity-Determining Regions of an IgG4 Monoclonal Antibody. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2505-2512.	2.8	13
42	Ion mobility augments the utility of mass spectrometry in the identification of human hemoglobin variants. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3179-3186.	1.5	12
43	Mapping Isomeric Peptides Derived from Biopharmaceuticals Using High-Resolution Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 16379-16384.	6.5	9
44	An Ion Mobility Assisted Data Independent LC-MS Strategy for the Analysis of Complex Biological Samples. <i>Current Analytical Chemistry</i> , 2013, 9, 199-211.	1.2	5
45	Travelling wave ion mobility. <i>International Journal for Ion Mobility Spectrometry</i> , 2013, 16, 69-69.	1.4	4
46	A Novel Ion Pseudo-trapping Phenomenon within Traveling Wave Ion Guides. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 880-887.	2.8	4