

# J Larry Campbell

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

2,689  
citations

172457

29  
h-index

189892

50  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2408  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid separation of cannabinoid isomer sets using differential mobility spectrometry and mass spectrometry. <i>Analyst, The</i> , 2022, 147, 2198-2206.	3.5	5
2	UVPD spectroscopy of differential mobility-selected prototropic isomers of protonated adenine. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19892-19900.	2.8	8
3	Predicting differential ion mobility behaviour <i>in silico</i> using machine learning. <i>Analyst, The</i> , 2021, 146, 4737-4743.	3.5	19
4	The Charge-State and Structural Stability of Peptides Conferred by Microsolvating Environments in Differential Mobility Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 956-968.	2.8	12
5	Determining Collision Cross Sections from Differential Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 8937-8944.	6.5	11
6	UVPD Spectroscopy of Differential Mobility-Selected Prototropic Isomers of Rivaroxaban. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8187-8195.	2.5	5
7	Electronic spectroscopy of differential mobility-selected prototropic isomers of protonated <i>para</i> -aminobenzoic acid. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20607-20614.	2.8	8
8	Measuring Electronic Spectra of Differential Mobility-Selected Ions in the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 405-410.	2.8	13
9	Separating Isomers, Conformers, and Analogues of Cyclosporin using Differential Mobility Spectroscopy, Mass Spectrometry, and Hydrogen-Deuterium Exchange. <i>Analytical Chemistry</i> , 2020, 92, 11053-11061.	6.5	15
10	Separating chiral isomers of amphetamine and methamphetamine using chemical derivatization and differential mobility spectrometry. <i>Analytical Science Advances</i> , 2020, 1, 233-244.	2.8	10
11	How Hot Are Your Ions in Differential Mobility Spectrometry?. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 582-593.	2.8	21
12	Combining Charge-Switch Derivatization with Ozone-Induced Dissociation for Fatty Acid Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2135-2143.	2.8	28
13	Unravelling the factors that drive separation in differential mobility spectrometry: A case study of regioisomeric phosphatidylcholine adducts. <i>International Journal of Mass Spectrometry</i> , 2019, 444, 116182.	1.5	7
14	Preferential Ion Microsolvation in Mixed-Modifier Environments Observed Using Differential Mobility Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2222-2227.	2.8	11
15	Recommendations for reporting ion mobility Mass Spectrometry measurements. <i>Mass Spectrometry Reviews</i> , 2019, 38, 291-320.	5.4	315
16	A parallelized molecular collision cross section package with optimized accuracy and efficiency. <i>Analyst, The</i> , 2019, 144, 1660-1670.	3.5	57
17	Separation of Sialylated Glycan Isomers by Differential Mobility Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 9916-9924.	6.5	30
18	Quantitative structural multiclass lipidomics using differential mobility: electron impact excitation of ions from organics (EIEIO) mass spectrometry. <i>Journal of Lipid Research</i> , 2018, 59, 910-919.	4.2	57

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19	Identifying Fenton-Reacted Trimethoprim Transformation Products Using Differential Mobility Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 5352-5357.	6.5	8
20	Separating and probing tautomers of protonated nucleobases using differential mobility spectrometry. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 174-181.	1.5	32
21	Characterizing the Tautomers of Protonated Aniline Using Differential Mobility Spectrometry and Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3858-3865.	2.5	31
22	Direct Evidence for the Origin of Bisâ€œGold Intermediates: Probing Gold Catalysis with Mass Spectrometry. <i>Chemistry - A European Journal</i> , 2018, 24, 2144-2150.	3.3	7
23	Determining molecular properties with differential mobility spectrometry and machine learning. <i>Nature Communications</i> , 2018, 9, 5096.	12.8	30
24	A novel MS<sup>3</sup> experiment for quantifying ions with a linear ion trap. <i>Canadian Journal of Chemistry</i> , 2018, 96, 653-663.	1.1	4
25	Assessing Physicochemical Properties of Drug Molecules via Microsolvation Measurements with Differential Mobility Spectrometry. <i>ACS Central Science</i> , 2017, 3, 101-109.	11.3	37
26	Analyzing Glycopeptide Isomers by Combining Differential Mobility Spectrometry with Electron- and Collision-Based Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1374-1381.	2.8	29
27	Distinguishing Cis and Trans Isomers in Intact Complex Lipids Using Electron Impact Excitation of Ions from Organics Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 7307-7315.	6.5	59
28	Themed issue on â€œemerging technologies in mass spectrometryâ€™. <i>Bioanalysis</i> , 2017, 9, 1617-1618.	1.5	0
29	Determination of triacylglycerol regioisomers using differential mobility spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 256-264.	1.5	52
30	Structural identification of triacylglycerol isomers using electron impact excitation of ions from organics (EIEIO). <i>Journal of Lipid Research</i> , 2016, 57, 2015-2027.	4.2	53
31	Studying Gas-Phase Interconversion of Tautomers Using Differential Mobility Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1277-1284.	2.8	64
32	In-depth sphingomyelin characterization using electron impact excitation of ions from organics and mass spectrometry. <i>Journal of Lipid Research</i> , 2016, 57, 858-867.	4.2	44
33	Differential Mobility Spectrometry-Hydrogen Deuterium Exchange (DMS-HDX) as a Probe of Protein Conformation in Solution. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 991-999.	2.8	20
34	Near-Complete Structural Characterization of Phosphatidylcholines Using Electron Impact Excitation of Ions from Organics. <i>Analytical Chemistry</i> , 2015, 87, 5837-5845.	6.5	127
35	Electron Capture Dissociation in a Branched Radio-Frequency Ion Trap. <i>Analytical Chemistry</i> , 2015, 87, 785-792.	6.5	45
36	Combining liquid chromatography with ozone-induced dissociation for the separation and identification of phosphatidylcholine double bond isomers. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5053-5064.	3.7	29

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37	Using differential mobility spectrometry to measure ion solvation: an examination of the roles of solvents and ionic structures in separating quinoline-based drugs. <i>Analyst, The</i> , 2015, 140, 6897-6903.	3.5	51
38	Applying Advanced Mass Spectrometry Techniques to Emerging Pollutant Detection: Differential Mobility Spectrometry. <i>ACS Symposium Series</i> , 2015, , 187-204.	0.5	0
39	Capturing Polyradical Protein Cations after an Electron Capture Event: Evidence for their Stable Distonic Structures in the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1695-1701.	2.8	5
40	Differential mobility spectrometry: a valuable technology for analyzing challenging biological samples. <i>Bioanalysis</i> , 2015, 7, 853-856.	1.5	32
41	Direct Interface between Digital Microfluidics and High Performance Liquid Chromatographyâ€“Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 11967-11972.	6.5	20
42	Three-dimensional enhanced lipidomics analysis combining UPLC, differential ion mobility spectrometry, and mass spectrometric separation strategies. <i>Journal of Lipid Research</i> , 2014, 55, 2432-2442.	4.2	90
43	Ion-Molecule Clustering in Differential Mobility Spectrometry: Lessons Learned from Tetraalkylammonium Cations and their Isomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1583-1591.	2.8	71
44	Structural characterization of glycerophospholipids by combinations of ozone- and collision-induced dissociation mass spectrometry: the next step towards â€œtop-downâ€œlipidomics. <i>Analyst, The</i> , 2014, 139, 204-214.	3.5	119
45	Rapid Characterization of Naphthenic Acids Using Differential Mobility Spectrometry and Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2014, 48, 10264-10272.	10.0	34
46	Differential Mobility Spectrometry-Driven Shotgun Lipidomics. <i>Analytical Chemistry</i> , 2014, 86, 9662-9669.	6.5	136
47	Characterization of acyl chain position in unsaturated phosphatidylcholines using differential mobility-mass spectrometry. <i>Journal of Lipid Research</i> , 2014, 55, 1668-1677.	4.2	100
48	Probing the Reactivity and Radical Nature of Oxidized Transition Metal-Thiolate Complexes by Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 502-512.	2.8	6
49	Ozone-Induced Dissociation of Conjugated Lipids Reveals Significant Reaction Rate Enhancements and Characteristic Odd-Electron Product Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 286-296.	2.8	61
50	Recognizing the potential benefits and pitfalls of high-resolution MS. <i>Bioanalysis</i> , 2013, 5, 1157-1160.	1.5	4
51	Using high-resolution quadrupole TOF technology in DMPK analyses. <i>Bioanalysis</i> , 2012, 4, 487-500.	1.5	33
52	Creating an evanescent ion/ion reaction region within a low-pressure linear ion trap. <i>International Journal of Mass Spectrometry</i> , 2012, 323-324, 14-20.	1.5	3
53	Probing Electrospray Ionization Dynamics Using Differential Mobility Spectrometry: The Curious Case of 4-Aminobenzoic Acid. <i>Analytical Chemistry</i> , 2012, 84, 7857-7864.	6.5	94
54	Performance and Attributes of Liquid Chromatographyâ€“Mass Spectrometry with Targeted Charge Separation in Quantitative Analysis of Therapeutic Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 67-74.	2.8	10

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55	Peptide and protein drug analysis by MS: challenges and opportunities for the discovery environment. <i>Bioanalysis</i> , 2011, 3, 645-657.	1.5	36
56	Ozone-induced dissociation on a modified tandem linear ion-trap: Observations of different reactivity for isomeric lipids. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1989-1999.	2.8	124
57	Targeted ion parking for the quantitation of biotherapeutic proteins: Concepts and preliminary data. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 2011-2022.	2.8	17
58	Using a dual inlet atmospheric pressure ionization source as a dynamic reaction vessel. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 3527-3530.	1.5	4
59	An Enhanced Mass Spectrometry Approach Reveals Human Embryonic Stem Cell Growth Factors in Culture. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 421-432.	3.8	80
60	On performing simultaneous electron transfer dissociation and collision-induced dissociation on multiply protonated peptides in a linear ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1672-1683.	2.8	25
61	Characterization of Laser-Induced Acoustic Desorption Coupled with a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. <i>Analytical Chemistry</i> , 2006, 78, 6133-6139.	6.5	41
62	Laser-Induced Acoustic Desorption/Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for Petroleum Distillate Analysis. <i>Analytical Chemistry</i> , 2005, 77, 7916-7923.	6.5	67
63	Analysis of Polyethylene by Using Cyclopentadienyl Cobalt Chemical Ionization Combined with Laser-Induced Acoustic Desorption/Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 4020-4026.	6.5	42
64	Analysis of Saturated Hydrocarbons by Using Chemical Ionization Combined with Laser-Induced Acoustic Desorption/Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 959-963.	6.5	55
65	Experimental and Theoretical Characterization of the 3,5-Didehydrobenzoate Anion: A Negatively Charged meta-Benzynes. <i>Journal of the American Chemical Society</i> , 2003, 125, 131-140.	13.7	16
66	Synthesis and Characterization of a Distonic Nitrene Ion: Gas-Phase Reactivity of Singlet and Triplet N-Phenyl-3-Nitrenopyridinium Ion. <i>Journal of the American Chemical Society</i> , 2001, 123, 7923-7924.	13.7	10