Liulin Deng

List of Publications by Year
in descending order

24 papers	1,103 citations	567281 15 h-index	610901 24 g-index
24 all docs	24 docs citations	24 times ranked	882 citing authors

#	Article	IF	Citations
1	Serpentine Ultralong Path with Extended Routing (SUPER) High Resolution Traveling Wave Ion Mobility-MS using Structures for Lossless Ion Manipulations. Analytical Chemistry, 2017, 89, 4628-4634.	6.5	162
2	Ultra-High Resolution Ion Mobility Separations Utilizing Traveling Waves in a 13 m Serpentine Path Length Structures for Lossless Ion Manipulations Module. Analytical Chemistry, 2016, 88, 8957-8964.	6.5	136
3	Detailed product analysis during the low temperature oxidation of n-butane. Physical Chemistry Chemical Physics, 2011, 13, 296-308.	2.8	108
4	New frontiers for mass spectrometry based upon structures for lossless ion manipulations. Analyst, The, 2017, 142, 1010-1021.	3.5	95
5	Ion Mobility Separations of Isomers based upon Long Path Length Structures for Lossless Ion Manipulations Combined with Mass Spectrometry. ChemistrySelect, 2016, 1, 2396-2399.	1.5	92
6	Lipid and Glycolipid Isomer Analyses Using Ultra-High Resolution Ion Mobility Spectrometry Separations. International Journal of Molecular Sciences, 2017, 18, 183.	4.1	86
7	Characterization of Traveling Wave Ion Mobility Separations in Structures for Lossless Ion Manipulations. Analytical Chemistry, 2015, 87, 11301-11308.	6.5	67
8	Achieving High Resolution Ion Mobility Separations Using Traveling Waves in Compact Multiturn Structures for Lossless Ion Manipulations. Analytical Chemistry, 2016, 88, 8949-8956.	6.5	52
9	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.	2.8	43
10	Compression Ratio Ion Mobility Programming (CRIMP) Accumulation and Compression of Billions of Ions for Ion Mobility-Mass Spectrometry Using Traveling Waves in Structures for Lossless Ion Manipulations (SLIM). Analytical Chemistry, 2017, 89, 6432-6439.	6.5	42
11	Mobility-Selected Ion Trapping and Enrichment Using Structures for Lossless Ion Manipulations. Analytical Chemistry, 2016, 88, 1728-1733.	6.5	41
12	Squeezing of Ion Populations and Peaks in Traveling Wave Ion Mobility Separations and Structures for Lossless Ion Manipulations Using Compression Ratio Ion Mobility Programming. Analytical Chemistry, 2016, 88, 11877-11885.	6.5	37
13	A cadmium(II)-based metal-organic framework material for the dispersive solid-phase extraction of polybrominated diphenyl ethers in environmental water samples. Journal of Chromatography A, 2015, 1422, 334-339.	3.7	33
14	Greatly Increasing Trapped Ion Populations for Mobility Separations Using Traveling Waves in Structures for Lossless Ion Manipulations. Analytical Chemistry, 2016, 88, 10143-10150.	6.5	25
15	Photoionisation and photodissociation studies of nonvolatile organic molecules by synchrotron VUV photoionisation mass spectrometry and theoretical calculations. International Reviews in Physical Chemistry, 2010, 29, 369-401.	2.3	20
16	Vacuum Ultraviolet Photofragmentation of Sarcosine: Photoionization Mass Spectrometric and Theoretical Insights. Journal of Physical Chemistry A, 2010, 114, 3411-3417.	2.5	14
17	Masked Multiplexed Separations to Enhance Duty Cycle for Structures for Lossless Ion Manipulations. Analytical Chemistry, 2021, 93, 5727-5734.	6.5	10
18	VUV photonâ€induced ionization/dissociation of antipyrine and propyphenazone: mass spectrometric and theoretical insights. Journal of Mass Spectrometry, 2010, 45, 734-739.	1.6	9

#	Article	IF	Citations
19	Dissociation of trivalent metal ion (Al³⁺, Ga³⁺,) Tj ETQq1 1 0.784314 rgBT /Over capture dissociation conditions. Rapid Communications in Mass Spectrometry, 2016, 30, 705-710.	1.5	9
20	Sensitivity and Robustness Enhancements by Using a V-Shape Ion Funnel in FTICR-MS. Analytical Chemistry, 2015, 87, 8073-8077.	6.5	8
21	Integration of a high duty cycle SLIM mobility filter with a triple quadrupole mass spectrometer for targeted quantitative analysis. International Journal of Mass Spectrometry, 2022, 475, 116832.	1.5	6
22	C18-attached membrane funnel-based spray ionization mass spectrometry for quantification of anti-diabetic drug from human plasma. Analytica Chimica Acta, 2016, 933, 97-102.	5.4	3
23	Utility of multi-functional two channel off-axis ion funnel (TCOAIF) in FTICR-MS. International Journal of Mass Spectrometry, 2018, 430, 126-133.	1.5	3
24	Suppression of peptide ion dissociation under electron capture: role of backbone amide hydrogen. Rapid Communications in Mass Spectrometry, 2015, 29, 1757-1764.	1.5	2