

# Xiaoyu Zhou

## List of Publications by Citations

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40  
papers

517  
citations

13  
h-index

21  
g-index

40  
ext. papers

587  
ext. citations

5  
avg, IF

3.89  
L-index

#	Paper	IF	Citations
40	High-salt-tolerance matrix for facile detection of glucose in rat brain microdialysates by MALDI mass spectrometry. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 465-9	7.8	76
39	Design of portable mass spectrometers with handheld probes: aspects of the sampling and miniature pumping systems. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 240-7	3.5	57
38	Highly Specific Enrichment of Multi-phosphopeptides by the Diphosphorylated Fructose-Modified Dual-Metal-Centered Zirconium-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 32613-32621	9.5	33
37	Tandem Analysis by a Dual-Trap Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1391-1398	7.8	32
36	Development of miniature mass spectrometry systems for bioanalysis outside the conventional laboratories. <i>Bioanalysis</i> , <b>2014</b> , 6, 1497-508	2.1	23
35	High efficiency tandem mass spectrometry analysis using dual linear ion traps. <i>Analyst, The</i> , <b>2014</b> , 139, 4779-84	5	22
34	Characterization of bioparticles using a miniature cylindrical ion trap mass spectrometer operated at rough vacuum. <i>Analyst, The</i> , <b>2011</b> , 136, 1305-9	5	22
33	Direct Analysis of Nonvolatile Chemical Compounds on Surfaces Using a Hand-Held Mass Spectrometer with Synchronized Discharge Ionization Function. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 826-31	7.8	20
32	Flowing gas in mass spectrometer: method for characterization and impact on ion processing. <i>Analyst, The</i> , <b>2014</b> , 139, 5215-22	5	20
31	Simulation of rarefied gas flows in atmospheric pressure interfaces for mass spectrometry systems. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 1890-9	3.5	20
30	Characteristics of stability boundary and frequency in nonlinear ion trap mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2010</b> , 21, 1588-95	3.5	18
29	Following the Ions through a Mass Spectrometer with Atmospheric Pressure Interface: Simulation of Complete Ion Trajectories from Ion Source to Mass Analyzer. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7033-40	7.8	17
28	Ion sponge: a 3-dimensional array of quadrupole ion traps for trapping and mass-selectively processing ions in gas phase. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 4102-9	7.8	14
27	Development of Visible-Wavelength MALDI Cell Mass Spectrometry for High-Efficiency Single-Cell Analysis. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 11913-11918	7.8	13
26	Quantitative assessment of protein adsorption on microparticles with particle mass spectrometry. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 3876-81	7.8	12
25	Ambient aerodynamic desorption/ionization method for microparticle mass measurement. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 4370-5	7.8	10
24	Study of nonlinear resonance effect in Paul trap. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 794-800	3.5	9

23	Potential distribution and transmission characteristics in a curved quadrupole ion guide. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 386-98	3.5	9
22	Characterization of column packing materials in high-performance liquid chromatography by charge-detection quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5400-6	7.8	9
21	A Theoretical Method for Characterizing Nonlinear Effects in Paul Traps with Added Octopole Field. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 1338-48	3.5	8
20	Ion transfer between ion source and mass spectrometer inlet: electro-hydrodynamic simulation and experimental validation. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30 Suppl 1, 29-33	2.2	8
19	Ion Mobility Separation Using a Dual-LIT Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2573-2579	7.8	7
18	The development of charge detection-quadrupole ion trap mass spectrometry driven by rectangular and triangular waves. <i>Analyst, The</i> , <b>2012</b> , 137, 1199-204	5	7
17	Direct analysis of oligosaccharides and alpha hydroxy acids in fruits using electrosonic spray ionization mass spectrometry. <i>Analyst, The</i> , <b>2011</b> , 136, 3809-14	5	6
16	Ion-Neutral Collision Effects on Ion Trapping and Pseudopotential Depth in Ion Trap Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2019</b> , 30, 2750-2755	3.5	5
15	Statistical Algorithm Enables Rapid Computation of Space Charge Effect and Spectral Correction in a Miniature Ion Trap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 429-433	3.5	4
14	Nonlinear effects in Paul traps operated in the second stability region: analytical analysis and numerical verification. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1882-9	3.5	4
13	Characteristics of electrical field and ion motion in surface-electrode ion traps. <i>Journal of Mass Spectrometry</i> , <b>2012</b> , 47, 286-93	2.2	4
12	A Gas-Phase Reaction Accelerator Using Vortex Flows. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 12049-12054	7.8	4
11	Nonlinear Ion Harmonics in the Paul Trap with Added Octopole Field: Theoretical Characterization and New Insight into Nonlinear Resonance Effect. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2016</b> , 27, 344-51	3.5	3
10	CHAPTER 16:Paper Spray. <i>New Developments in Mass Spectrometry</i> , <b>2014</b> , 389-422	2.3	3
9	One-pot hydrothermal cross-linking preparation of poly(vinylpyrrolidone) immobilized silica stationary phase for hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , <b>2020</b> , 1633, 461656	4.5	3
8	Study of In-Trap Ion Clouds by Ion Trajectory Simulations. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 223-229	3.5	3
7	Stimulated Motion Suppression (STMS): a New Approach to Break the Resolution Barrier for Ion Trap Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 1738-1744	3.5	3
6	The efficient profiling of serum N-linked glycans by a highly porous 3D graphene composite. <i>Analyst, The</i> , <b>2019</b> , 144, 5261-5270	5	2

5	Recent advances in on-site mass spectrometry analysis for clinical applications.. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2022</b> , 149, 116548	14.6	2
4	Mass Analysis Using Collective Interaction of Ions in an Ion Trap. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 5998-6002	28	2
3	Tandem-in-time mass spectrometry analysis facilitated by real-time pressure adjustments. <i>International Journal of Mass Spectrometry</i> , <b>2021</b> , 462, 116523	1.9	2
2	Numerical simulation for mass spectrometry instrumentation. <i>International Journal of Mass Spectrometry</i> , <b>2020</b> , 458, 116439	1.9	1
1	Chapter 6:Low-Temperature Plasma Probe. <i>New Developments in Mass Spectrometry</i> , <b>2014</b> , 137-163	2.3	