Xiaoyu Zhou

List of Publications by Year
in descending order

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40	663	566801 15	610482 24
papers	citations	h-index	g-index

40	40	40	603
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Salt-Tolerance Matrix for Facile Detection of Glucose in Rat Brain Microdialysates by MALDI Mass Spectrometry. Analytical Chemistry, 2012, 84, 465-469.	3.2	91
2	Design of Portable Mass Spectrometers with Handheld Probes: Aspects of the Sampling and Miniature Pumping Systems. Journal of the American Society for Mass Spectrometry, 2015, 26, 240-247.	1.2	60
3	Tandem Analysis by a Dual-Trap Miniature Mass Spectrometer. Analytical Chemistry, 2019, 91, 1391-1398.	3.2	54
4	Highly Specific Enrichment of Multi-phosphopeptides by the Diphosphorylated Fructose-Modified Dual-Metal-Centered Zirconiumâ€“Organic Framework. ACS Applied Materials & Interfaces, 2018, 10, 32613-32621.	4.0	38
5	High efficiency tandem mass spectrometry analysis using dual linear ion traps. Analyst, The, 2014, 139, 4779-4784.	1.7	27
6	Recent advances in on-site mass spectrometry analysis for clinical applications. TrAC - Trends in Analytical Chemistry, 2022, 149, 116548.	5.8	27
7	Development of miniature mass spectrometry systems for bioanalysis outside the conventional laboratories. Bioanalysis, 2014, 6, 1497-1508.	0.6	25
8	Direct Analysis of Nonvolatile Chemical Compounds on Surfaces Using a Hand-Held Mass Spectrometer with Synchronized Discharge Ionization Function. Analytical Chemistry, 2016, 88, 826-831.	3.2	25
9	Simulation of Rarefied Gas Flows in Atmospheric Pressure Interfaces for Mass Spectrometry Systems. Journal of the American Society for Mass Spectrometry, 2013, 24, 1890-1899.	1.2	24
10	Characterization of bioparticles using a miniature cylindrical ion trap mass spectrometer operated at rough vacuum. Analyst, The, 2011, 136, 1305.	1.7	22
11	Flowing gas in mass spectrometer: method for characterization and impact on ion processing. Analyst, The, 2014, 139, 5215-5222.	1.7	21
12	Following the Ions through a Mass Spectrometer with Atmospheric Pressure Interface: Simulation of Complete Ion Trajectories from Ion Source to Mass Analyzer. Analytical Chemistry, 2016, 88, 7033-7040.	3.2	21
13	Characteristics of stability boundary and frequency in nonlinear ion trap mass spectrometer. Journal of the American Society for Mass Spectrometry, 2010, 21, 1588-1595.	1.2	19
14	Development of Visible-Wavelength MALDI Cell Mass Spectrometry for High-Efficiency Single-Cell Analysis. Analytical Chemistry, 2016, 88, 11913-11918.	3.2	19
15	Ion Sponge: A 3-Dimentional Array of Quadrupole Ion Traps for Trapping and Mass-Selectively Processing Ions in Gas Phase. Analytical Chemistry, 2014, 86, 4102-4109.	3.2	15
16	Quantitative Assessment of Protein Adsorption on Microparticles with Particle Mass Spectrometry. Analytical Chemistry, 2014, 86, 3876-3881.	3.2	13
17	Potential Distribution and Transmission Characteristics in a Curved Quadrupole Ion Guide. Journal of the American Society for Mass Spectrometry, 2011, 22, 386-398.	1.2	11
18	The development of charge detection-quadrupole ion trap mass spectrometry driven by rectangular and triangular waves. Analyst, The, 2012, 137, 1199.	1.7	11

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19	Study of Nonlinear Resonance Effect in Paul Trap. Journal of the American Society for Mass Spectrometry, 2013, 24, 794-800.	1.2	11
20	Ambient Aerodynamic Desorption/Ionization Method for Microparticle Mass Measurement. Analytical Chemistry, 2013, 85, 4370-4375.	3.2	11
21	Ion transfer between ion source and mass spectrometer inlet: electroâ€hydrodynamic simulation and experimental validation. Rapid Communications in Mass Spectrometry, 2016, 30, 29-33.	0.7	11
22	Characterization of Column Packing Materials in High-Performance Liquid Chromatography by Charge-Detection Quadrupole Ion Trap Mass Spectrometry. Analytical Chemistry, 2011, 83, 5400-5406.	3.2	10
23	Ion Mobility Separation Using a Dual-LIT Miniature Mass Spectrometer. Analytical Chemistry, 2020, 92, 2573-2579.	3.2	10
24	A Theoretical Method for Characterizing Nonlinear Effects in Paul Traps with Added Octopole Field. Journal of the American Society for Mass Spectrometry, 2015, 26, 1338-1348.	1.2	9
25	The efficient profiling of serum N-linked glycans by a highly porous 3D graphene composite. Analyst, The, 2019, 144, 5261-5270.	1.7	9
26	Ion-Neutral Collision Effects on Ion Trapping and Pseudopotential Depth in Ion Trap Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2750-2755.	1.2	9
27	Direct analysis of oligosaccharides and alpha hydroxy acids in fruits using electrosonic spray ionization mass spectrometry. Analyst, The, 2011, 136, 3809.	1.7	8
28	A Gas-Phase Reaction Accelerator Using Vortex Flows. Analytical Chemistry, 2020, 92, 12049-12054.	3.2	6
29	Mass Analysis Using Collective Interaction of Ions in an Ion Trap. Analytical Chemistry, 2021, 93, 5998-6002.	3.2	6
30	Characteristics of electrical field and ion motion in surfaceâ€electrode ion traps. Journal of Mass Spectrometry, 2012, 47, 286-293.	0.7	5
31	One-pot hydrothermal cross-linking preparation of poly(vinylpyrrolidone) immobilized silica stationary phase for hydrophilic interaction chromatography. Journal of Chromatography A, 2020, 1633, 461656.	1.8	5
32	Statistical Algorithm Enables Rapid Computation of Space Charge Effect and Spectral Correction in a Miniature Ion Trap Mass Spectrometer. Journal of the American Society for Mass Spectrometry, 2020, 31, 429-433.	1.2	5
33	Nonlinear Effects in Paul Traps Operated in the Second Stability Region: Analytical Analysis and Numerical Verification. Journal of the American Society for Mass Spectrometry, 2014, 25, 1882-1889.	1.2	4
34	Nonlinear Ion Harmonics in the Paul Trap with Added Octopole Field: Theoretical Characterization and New Insight into Nonlinear Resonance Effect. Journal of the American Society for Mass Spectrometry, 2016, 27, 344-351.	1.2	4
35	Study of In-Trap Ion Clouds by Ion Trajectory Simulations. Journal of the American Society for Mass Spectrometry, 2018, 29, 223-229.	1.2	4
36	Numerical simulation for mass spectrometry instrumentation. International Journal of Mass Spectrometry, 2020, 458, 116439.	0.7	4

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37	Stimulated Motion Suppression (STMS): a New Approach to Break the Resolution Barrier for Ion Trap Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 1738-1744.	1.2	3
38	Tandem-in-time mass spectrometry analysis facilitated by real-time pressure adjustments. International Journal of Mass Spectrometry, 2021, 462, 116523.	0.7	3
39	Paper Spray. New Developments in Mass Spectrometry, 2014, , 389-422.	0.2	3
40	Chapter 6. Low-Temperature Plasma Probe. New Developments in Mass Spectrometry, 2014, , 137-163.	0.2	0