

Wei Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66
papers

1,030
citations

18
h-index

29
g-index

70
ext. papers

1,220
ext. citations

5.2
avg, IF

4.51
L-index

#	Paper	IF	Citations
66	Integration of a liquid-phase ion trap with a miniature mass spectrometer.. <i>Analytica Chimica Acta</i> , 2022 , 1193, 339315	6.6	1
65	Coupling handheld liquid microjunction-surface sampling probe (hLMJ-SSP) to the miniature mass spectrometer for automated and in-situ surface analysis.. <i>Talanta</i> , 2021 , 242, 123090	6.2	0
64	Qualitative screening of prohibited drugs in dietary supplements using a homemade miniature mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2021 , 462, 116521	1.9	3
63	Development of a miniature protein mass spectrometer capable of analyzing native proteins. <i>Talanta</i> , 2021 , 233, 122580	6.2	0
62	Coupling of micro solid-phase extraction with electrospray ionization and its potential for complex sample analyses using a miniature mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2021 , 469, 116675	1.9	
61	A general purpose MALDI matrix for the analyses of small organic, peptide and protein molecules. <i>Analyst, The</i> , 2021 , 146, 4080-4086	5	0
60	Toward Nanopore Electrospray Mass Spectrometry: Nanopore Effects in the Analysis of Bacteria. <i>ACS Central Science</i> , 2020 , 6, 1001-1008	16.8	4
59	The Coupling of Taylor Dispersion Analysis and Mass Spectrometry to Differentiate Protein Conformations. <i>Analytical Chemistry</i> , 2020 , 92, 5200-5206	7.8	5
58	A "Brick" Mass Spectrometer with Photoionization for Direct Analysis of Trace Volatile Compounds. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 961-968	3.5	9
57	Rapid 3-dimensional shape determination of globular proteins by mobility capillary electrophoresis and native mass spectrometry. <i>Chemical Science</i> , 2020 , 11, 4758-4765	9.4	9
56	A mini mass spectrometer with a low noise Faraday detector. <i>Analyst, The</i> , 2020 , 145, 3892-3898	5	4
55	Liquid-Phase Ion Trap for Ion Trapping, Transfer, and Sequential Ejection in Solutions. <i>Analytical Chemistry</i> , 2020 , 92, 9065-9071	7.8	1
54	Chemiluminescence Resonance Energy Transfer-Based Mesoporous Silica Nanosensors for the Detection of miRNA. <i>ACS Sensors</i> , 2020 , 5, 2800-2805	9.2	11
53	Ambient ionization coupled with a miniature mass spectrometer for rapid identification of unauthorized adulterants in food. <i>Journal of Food Composition and Analysis</i> , 2020 , 85, 103333	4.1	10
52	Straight nano-electrospray ionization and its coupling of mobility capillary electrophoresis to mass spectrometry. <i>Talanta</i> , 2020 , 206, 120183	6.2	5
51	Pseudo-Multiple Reaction Monitoring (Pseudo-MRM) Mode on the "Brick" Mass Spectrometer, Using the Grid-SWIFT Waveform. <i>Analytical Chemistry</i> , 2019 , 91, 13838-13846	7.8	12
50	Structural Analysis of Biomolecules through a Combination of Mobility Capillary Electrophoresis and Mass Spectrometry. <i>ACS Omega</i> , 2019 , 4, 2377-2386	3.9	20

49	High-Throughput and Direct Sample Screening Using a Laser Spray Ionization Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , 2019 , 91, 8808-8813	7.8	7
48	Boosting the Sensitivity and Selectivity of a Miniature Mass Spectrometer Using a Hybrid Ion Funnel. <i>Analytical Chemistry</i> , 2019 , 91, 7911-7919	7.8	10
47	Electric modeling and characterization of pulsed high-voltage nanoelectrospray ionization sources by a miniature ion trap mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2019 , 54, 583-591	2.2	3
46	High ohmic resistor hyphenated gel loading tip nano-electrospray ionization source for mini mass spectrometer. <i>Talanta</i> , 2019 , 202, 59-66	6.2	1
45	Extracting biomolecule collision cross sections from FT-ICR mass spectral line shape. <i>Talanta</i> , 2019 , 205, 120093	6.2	1
44	Structure and effective charge characterization of proteins by a mobility capillary electrophoresis based method. <i>Chemical Science</i> , 2019 , 10, 7779-7787	9.4	18
43	Toward high pressure miniature protein mass spectrometer: Theory and initial results. <i>Journal of Mass Spectrometry</i> , 2019 , 54, 957-965	2.2	3
42	Mobility Capillary Electrophoresis-Restrained Modeling Method for Protein Structure Analysis in Mixtures. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 2335-2341	3.4	10
41	Rapid characterization of structure-dependency gas-phase ion/ion reaction via accumulative tandem MS. <i>Talanta</i> , 2019 , 195, 17-22	6.2	2
40	Direct bacteria analysis using laserspray ionization miniature mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 4031-4040	4.4	8
39	Direct Biological Sample Analyses by Laserspray Ionization Miniature Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 5696-5702	7.8	26
38	Mini 2000: A Robust Miniature Mass Spectrometer with Continuous Atmospheric Pressure Interface. <i>Instruments</i> , 2018 , 2, 2	1.2	14
37	A simple desorption atmospheric pressure chemical ionization method for enhanced non-volatile sample analysis. <i>Analytica Chimica Acta</i> , 2018 , 1002, 62-69	6.6	11
36	Recent developments of miniature ion trap mass spectrometers. <i>Chinese Chemical Letters</i> , 2018 , 29, 1578-1584	2.6	6
35	Improving the Performance of the Mini 2000 Mass Spectrometer with a Triboelectric Nanogenerator Electrospray Ionization Source. <i>ACS Omega</i> , 2018 , 3, 12229-12234	3.9	8
34	Instantaneous Response of Bacteria to External Stimuli Monitored by Syringe Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 11417-11422	7.8	5
33	Improving the Performances of a "Brick Mass Spectrometer" by Quadrupole Enhanced Dipolar Resonance Ejection from the Linear Ion Trap. <i>Analytical Chemistry</i> , 2018 , 90, 11671-11679	7.8	16
32	Mini Mass Spectrometer Integrated with a Miniature Ion Funnel. <i>Analytical Chemistry</i> , 2017 , 89, 4177-4183	7.8	48

31	A "Brick Mass Spectrometer" Driven by a Sinusoidal Frequency Scanning Technique. <i>Analytical Chemistry</i> , 2017 , 89, 5578-5584	7.8	29
30	A dual-source miniature mass spectrometer with improved sensitivity. <i>International Journal of Mass Spectrometry</i> , 2017 , 423, 15-19	1.9	9
29	A two-step method for rapid characterization of electroosmotic flows in capillary electrophoresis. <i>Electrophoresis</i> , 2017 , 38, 3130-3135	3.6	11
28	Dual-Polarity Ion Trap Mass Spectrometry: Dynamic Monitoring and Controlling Gas-phase Ion-Ion Reactions. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1262-1270	3.5	5
27	Rapid screening of explosives in ambient environment by aerodynamic assisted thermo desorption mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2017 , 52, 1-6	2.2	8
26	Electro-kinetic assisted electrospray ionization for enhanced complex sample analysis. <i>Talanta</i> , 2017 , 164, 45-51	6.2	7
25	Extracting biomolecule collision cross sections from the high-resolution FT-ICR mass spectral linewidths. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 713-7	3.6	10
24	Development of a miniature mass spectrometer with in-source desolvation. <i>International Journal of Mass Spectrometry</i> , 2016 , 397-398, 1-5	1.9	3
23	Ion collision cross section measurements in Fourier transform-based mass analyzers. <i>Analyst, The</i> , 2016 , 141, 3554-61	5	5
22	An aerodynamic assisted miniature mass spectrometer for enhanced volatile sample analysis. <i>Analyst, The</i> , 2016 , 141, 5404-11	5	24
21	Ion collision cross section analyses in quadrupole ion traps using the filter diagonalization method: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12058-64	3.6	1
20	Reducing Space Charge Effects in a Linear Ion Trap by Rhombic Ion Excitation and Ejection. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1256-62	3.5	13
19	Rapid determination of bacterial aminoglycoside resistance in environmental samples using membrane electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30 Suppl 1, 202-7	2.2	4
18	Realistic modeling of ion-neutral collisions in quadrupole ion traps. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 95-102	2.2	13
17	Collision cross section measurements for biomolecules within a high-resolution FT-ICR cell: theory. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9060-7	3.6	11
16	Development of a miniature mass spectrometer with continuous atmospheric pressure interface. <i>Analyst, The</i> , 2015 , 140, 3406-14	5	81
15	A pulsed pinhole atmospheric pressure interface for simplified mass spectrometry instrumentation with enhanced sensitivity. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 701-6	2.2	18
14	Development and characterizations of a miniature capillary electrophoresis mass spectrometry system. <i>Analytical Chemistry</i> , 2015 , 87, 2236-41	7.8	35

13	Characterization of geometry deviation effects on ion trap mass analysis: A comparison study. <i>International Journal of Mass Spectrometry</i> , 2014 , 370, 125-131	1.9	13
12	Ion sponge: a 3-dimensional array of quadrupole ion traps for trapping and mass-selectively processing ions in gas phase. <i>Analytical Chemistry</i> , 2014 , 86, 4102-9	7.8	14
11	Ion collision crosssection measurements in quadrupole ion traps using a time-frequency analysis method. <i>Analyst, The</i> , 2014 , 139, 6144-53	5	12
10	The coupling effects of hexapole and octopole fields in quadrupole ion traps: a theoretical study. <i>Journal of Mass Spectrometry</i> , 2013 , 48, 937-44	2.2	31
9	Study of the efficiency for ion transfer through bent capillaries. <i>Journal of Mass Spectrometry</i> , 2012 , 47, 1466-72	2.2	9
8	Modeling of ion transient response to dipolar AC excitation in a quadrupole ion trap. <i>International Journal of Mass Spectrometry</i> , 2011 , 308, 49-55	1.9	21
7	Sampling wand for an ion trap mass spectrometer. <i>Analytical Chemistry</i> , 2011 , 83, 1857-61	7.8	26
6	Study of Discontinuous Atmospheric Pressure Interfaces for Mass Spectrometry Instrumentation Development. <i>Analytical Chemistry</i> , 2010 , 82, 6584-6592	7.8	51
5	Direct analysis of melamine in complex matrices using a handheld mass spectrometer. <i>Analyst, The</i> , 2010 , 135, 705-11	5	90
4	Ion trap mass analysis at high pressure: an experimental characterization. <i>Journal of Mass Spectrometry</i> , 2010 , 45, 26-34	2.2	29
3	Miniaturization of Mass Spectrometry Analysis Systems. <i>Journal of the Association for Laboratory Automation</i> , 2010 , 15, 433-439		46
2	Characterization of electrode surface roughness and its impact on ion trap mass analysis. <i>Journal of Mass Spectrometry</i> , 2009 , 44, 353-60	2.2	36
1	Ion trap mass analysis at high pressure: a theoretical view. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 2144-53	3.5	50