

Zongxiu Nie

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.

77
papers

1,569
citations

22
h-index

36
g-index

85
ext. papers

1,959
ext. citations

8.1
avg, IF

4.64
L-index

#	Paper	IF	Citations
77	Revealing the Sulfur Redox Paths in a Li-S Battery by an In-Situ Hyphenated Technique of Electrochemistry and Mass Spectrometry. <i>Advanced Materials</i> , 2021 , e2106618	24	8
76	In-depth free fatty acids annotation of edible oil by mCPBA epoxidation and tandem mass spectrometry.. <i>Food Chemistry</i> , 2021 , 374, 131793	8.5	
75	Application of Graphdiyne in Surface-Assisted Laser Desorption Ionization Mass Spectrometry. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1914-1920	9.5	11
74	A Near-Infrared-II Polymer with Tandem Fluorophores Demonstrates Superior Biodegradability for Simultaneous Drug Tracking and Treatment Efficacy Feedback. <i>ACS Nano</i> , 2021 , 15, 5428-5438	16.7	23
73	Response to Comment on "A Theoretical Method for Characterizing Nonlinear Effects in Paul Traps with Added Octopole Field". <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1271	3.5	
72	Revealing the Distribution of Aggregation-Induced Emission Nanoparticles via Dual-Modality Imaging with Fluorescence and Mass Spectrometry. <i>Research</i> , 2021 , 2021, 9784053	7.8	1
71	Point-of-Care Test Paper for Exhaled Breath Aldehyde Analysis via Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 9158-9165	7.8	7
70	MALDI-TOF/TOF tandem mass spectrometry imaging reveals non-uniform distribution of disaccharide isomers in plant tissues. <i>Food Chemistry</i> , 2021 , 338, 127984	8.5	8
69	Mass spectrometry for multi-dimensional characterization of natural and synthetic materials at the nanoscale. <i>Chemical Society Reviews</i> , 2021 , 50, 5243-5280	58.5	7
68	Development of capillary-paper spray for small-molecule analysis in complex samples. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 1099-1106	4.4	2
67	Mass Spectrometry Imaging Reveals In Situ Behaviors of Multiple Components in Aerosol Particles. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23225-23231	16.4	4
66	Mass Spectrometry Imaging Reveals In Situ Behaviors of Multiple Components in Aerosol Particles. <i>Angewandte Chemie</i> , 2021 , 133, 23413	3.6	0
65	Innenrücktitelbild: Mass Spectrometry Imaging Reveals In Situ Behaviors of Multiple Components in Aerosol Particles (Angew. Chem. 43/2021). <i>Angewandte Chemie</i> , 2021 , 133, 23655	3.6	
64	Hand-powered ionization methods for the mass spectrometric detection of small molecules. <i>International Journal of Mass Spectrometry</i> , 2021 , 470, 116716	1.9	2
63	Pocket-Size "MasSpec Pointer" for Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 13326-13333	7.8	6
62	Chiral Primary Amine/Ketone Cooperative Catalysis for Asymmetric β -Hydroxylation with Hydrogen Peroxide. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1078-1087	16.4	9
61	Effects of Thymoquinone on Small-Molecule Metabolites in a Rat Model of Cerebral Ischemia Reperfusion Injury Assessed using MALDI-MSI. <i>Metabolites</i> , 2020 , 10,	5.6	12

60	Direct identification and metabolomic analysis of Huanglongbing associated with Candidatus Liberibacter spp. in navel orange by MALDI-TOF-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 3091-3101	4.4	7
59	A Gas-Phase Reaction Accelerator Using Vortex Flows. <i>Analytical Chemistry</i> , 2020 , 92, 12049-12054	7.8	4
58	Ultrafast Photocatalytic Reaction Screening by Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 6564-6570	6.57	8
57	High-Throughput Monitoring of Multiclass Syrup Adulterants in Honey Based on the Oligosaccharide and Polysaccharide Profiles by MALDI Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 11256-11261	5.7	16
56	Enhancing surface-assisted laser desorption ionization mass spectrometry performance by integrating plasmonic hot-electron transfer effect through surface modification. <i>Chemical Communications</i> , 2019 , 55, 5769-5772	5.8	14
55	TiC MXene as a novel substrate provides rapid differentiation and quantitation of glycan isomers with LDI-MS. <i>Chemical Communications</i> , 2019 , 55, 10619-10622	5.8	12
54	A Miniature Particle Mass Spectrometer. <i>Analytical Chemistry</i> , 2019 , 91, 9393-9397	7.8	6
53	Mass, Size, and Density Measurements of Microparticles in a Quadrupole Ion Trap. <i>Analytical Chemistry</i> , 2019 , 91, 13508-13513	7.8	6
52	Polydopamine-Modified Substrates for High-Sensitivity Laser Desorption Ionization Mass Spectrometry Imaging. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46140-46148	9.5	12
51	Direct identification of forensic body fluids by MALDI-MS. <i>Analyst, The</i> , 2019 , 144, 7017-7023	5	8
50	Competitive adsorption on gold nanoparticles for human papillomavirus 16 L1 protein detection by LDI-MS. <i>Analyst, The</i> , 2019 , 144, 6641-6646	5	5
49	Laser cleavable probes for multiplexed glycan detection by single cell mass spectrometry. <i>Chemical Science</i> , 2019 , 10, 10958-10962	9.4	16
48	Bacterial capture efficiency in fluid bloodstream improved by bendable nanowires. <i>Nature Communications</i> , 2018 , 9, 444	17.4	37
47	Ultratrace and robust visual sensor of Cd ions based on the size-dependent optical properties of Au@g-CNQDs nanoparticles in mice models. <i>Biosensors and Bioelectronics</i> , 2018 , 103, 87-93	11.8	27
46	Differentiation and Relative Quantitation of Disaccharide Isomers by MALDI-TOF/TOF Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 1525-1530	7.8	21
45	Utilizing a Mini-Humidifier To Deposit Matrix for MALDI Imaging. <i>Analytical Chemistry</i> , 2018 , 90, 8309-8313	7.3	16
44	A novel mass spectrometry method based on competitive non-covalent interaction for the detection of biomarkers. <i>Chemical Communications</i> , 2018 , 54, 10726-10729	5.8	16
43	Heat-Induced Rearrangement of the Disulfide Bond of Lactoglobulin Characterized by Multiply Charged MALDI-TOF/TOF Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 10670-10675	7.8	4

42	N-Phenyl-2-naphthylamine as a Novel MALDI Matrix for Analysis and in Situ Imaging of Small Molecules. <i>Analytical Chemistry</i> , 2018 , 90, 729-736	7.8	33
41	Mass Spectrometry Genotyping of Human Papillomavirus Based on High-Efficiency Selective Enrichment of Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41178-41184	9.5	11
40	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
39	Mass spectrometry imaging of the in situ drug release from nanocarriers. <i>Science Advances</i> , 2018 , 4, eaat0039	9.3	46
38	Hot electron transfer promotes ion production in plasmonic metal nanostructure assisted laser desorption ionization mass spectrometry. <i>Chemical Communications</i> , 2018 , 54, 10905-10908	5.8	26
37	Laser Cleavable Probes-Based Cell Surface Engineering for in Situ Sialoglycoconjugates Profiling by Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 6397-6402	7.8	11
36	Mass Spectrometry Imaging of Kidney Tissue Sections of Rat Subjected to Unilateral Ureteral Obstruction. <i>Scientific Reports</i> , 2017 , 7, 41954	4.9	34
35	Characterization of organic aerosol in Beijing by laser desorption ionization coupled with Fourier Transform Ion Cyclotron Resonance Mass spectrometry. <i>Atmospheric Environment</i> , 2017 , 159, 55-65	5.3	8
34	Investigation and Applications of In-Source Oxidation in Liquid Sampling-Atmospheric Pressure Afterglow Microplasma Ionization (LS-APAG) Source. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1036-1047	3.5	8
33	(S)-Oxiracetam is the Active Ingredient in Oxiracetam that Alleviates the Cognitive Impairment Induced by Chronic Cerebral Hypoperfusion in Rats. <i>Scientific Reports</i> , 2017 , 7, 10052	4.9	17
32	Hexagonal boron nitride nanosheets as a multifunctional background-free matrix to detect small molecules and complicated samples by MALDI mass spectrometry. <i>Chemical Communications</i> , 2017 , 53, 8114-8117	5.8	32
31	Application of flowerlike MgO for highly sensitive determination of lead via matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30 Suppl 1, 208-16	2.2	4
30	Development of Visible-Wavelength MALDI Cell Mass Spectrometry for High-Efficiency Single-Cell Analysis. <i>Analytical Chemistry</i> , 2016 , 88, 11913-11918	7.8	13
29	Fluorographene nanosheets: a new carbon-based matrix for the detection of small molecules by MALDI-TOF MS. <i>RSC Advances</i> , 2016 , 6, 99714-99719	3.7	18
28	The bridge between thin layer chromatography-mass spectrometry and high-performance liquid chromatography-mass spectrometry: The realization of liquid thin layer chromatography-mass spectrometry (LTL-MS). <i>Journal of Chromatography A</i> , 2016 , 1460, 181-9	4.5	6
27	Electrospray soft-landing for the construction of non-covalent molecular nanostructures using charged droplets under ambient conditions. <i>Chemical Communications</i> , 2016 , 52, 13660-13663	5.8	17
26	A Theoretical Method for Characterizing Nonlinear Effects in Paul Traps with Added Octopole Field. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 1338-48	3.5	8
25	Copper-catalyzed aerobic autoxidation of N-hydroxycarbamates probed by mass spectrometry. <i>Chemistry - A European Journal</i> , 2015 , 21, 14630-7	4.8	6

24	Mass spectrometry imaging reveals the sub-organ distribution of carbon nanomaterials. <i>Nature Nanotechnology</i> , 2015 , 10, 176-82	28.7	131
23	In situ bioconjugation and ambient surface modification using reactive charged droplets. <i>Analytical Chemistry</i> , 2015 , 87, 3144-8	7.8	13
22	MALDI-TOF MS imaging of metabolites with a N-(1-naphthyl) ethylenediamine dihydrochloride matrix and its application to colorectal cancer liver metastasis. <i>Analytical Chemistry</i> , 2015 , 87, 422-30	7.8	86
21	Organic salt NEDC (N-naphthylethylenediamine dihydrochloride) assisted laser desorption ionization mass spectrometry for identification of metal ions in real samples. <i>Analyst, The</i> , 2014 , 139, 3469-75	5	14
20	1,5-Diaminonaphthalene hydrochloride assisted laser desorption/ionization mass spectrometry imaging of small molecules in tissues following focal cerebral ischemia. <i>Analytical Chemistry</i> , 2014 , 86, 10114-21	7.8	72
19	Plasma-based ambient sampling/ionization/transmission integrated source for mass spectrometry. <i>Analyst, The</i> , 2014 , 139, 5387-92	5	9
18	Synthesis of graphene nanosheet powder with layer number control via a soluble salt-assisted route. <i>RSC Advances</i> , 2014 , 4, 13350	3.7	43
17	Quantitative assessment of protein adsorption on microparticles with particle mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 3876-81	7.8	12
16	Synthesis of indazoles and azaindazoles by intramolecular aerobic oxidative C-N coupling under transition-metal-free conditions. <i>Chemistry - A European Journal</i> , 2014 , 20, 3932-8	4.8	28
15	Carbon nanodots as a matrix for the analysis of low-molecular-weight molecules in both positive- and negative-ion matrix-assisted laser desorption/ionization time-of-flight mass spectrometry and quantification of glucose and uric acid in real samples. <i>Analytical Chemistry</i> , 2013 , 85, 6646-52	7.8	131
14	Rapid detection of polyhydroxylated alkaloids in mulberry using leaf spray mass spectrometry. <i>Analytical Methods</i> , 2013 , 5, 2455	3.2	10
13	1-naphthylhydrazine hydrochloride: a new matrix for the quantification of glucose and homogentisic acid in real samples by MALDI-TOF MS. <i>Clinica Chimica Acta</i> , 2013 , 420, 94-8	6.2	23
12	Ambient aerodynamic desorption/ionization method for microparticle mass measurement. <i>Analytical Chemistry</i> , 2013 , 85, 4370-5	7.8	10
11	The development of charge detection-quadrupole ion trap mass spectrometry driven by rectangular and triangular waves. <i>Analyst, The</i> , 2012 , 137, 1199-204	5	7
10	High-salt-tolerance matrix for facile detection of glucose in rat brain microdialysates by MALDI mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 465-9	7.8	76
9	2,3,4,5-Tetrakis(3,4-dihydroxyphenyl)thiophene: a new matrix for the selective analysis of low molecular weight amines and direct determination of creatinine in urine by MALDI-TOF MS. <i>Analytical Chemistry</i> , 2012 , 84, 10291-7	7.8	53
8	Characteristics of electrical field and ion motion in surface-electrode ion traps. <i>Journal of Mass Spectrometry</i> , 2012 , 47, 286-93	2.2	4
7	N-(1-naphthyl) ethylenediamine dinitrate: a new matrix for negative ion MALDI-TOF MS analysis of small molecules. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1454-60	3.5	38

6	Characterization of column packing materials in high-performance liquid chromatography by charge-detection quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 5400-6	7.8	9
5	Calibration of a frequency-scan quadrupole ion trap mass spectrometer for microparticle mass analysis. <i>International Journal of Mass Spectrometry</i> , 2008 , 270, 8-15	1.9	28
4	High-speed mass analysis of whole erythrocytes by charge-detection quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 7401-7	7.8	36
3	Laser-induced acoustic desorption mass spectrometry of single bioparticles. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1423-6	16.4	56
2	Microscopy-based mass measurement of a single whole virus in a cylindrical ion trap. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 8131-4	16.4	30
1	TiO ₂ /MXene-Assisted LDI-MS for Urine Metabolic Profiling in Urinary Disease. <i>Advanced Functional Materials</i> , 2106743	15.6	3