

Caiqiao Xiong

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,119
citations

471509

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395702

33
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43
all docs

43
docs citations

43
times ranked

1304
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass spectrometry imaging reveals the sub-organ distribution of carbon nanomaterials. <i>Nature Nanotechnology</i> , 2015, 10, 176-182.	31.5	164
2	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, 6646-6652.	6.5	151
3	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, 10114-10121.	6.5	105
4	High-Salt-Tolerance Matrix for Facile Detection of Glucose in Rat Brain Microdialysates by MALDI Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 465-469.	6.5	91
5	Mass spectrometry imaging of the in situ drug release from nanocarriers. <i>Science Advances</i> , 2018, 4, eaat9039.	10.3	70
6	<i>N</i> -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.	6.5	51
7	Hot electron transfer promotes ion production in plasmonic metal nanostructure assisted laser desorption ionization mass spectrometry. <i>Chemical Communications</i> , 2018, 54, 10905-10908.	4.1	44
8	<i>N</i> -(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, 1454-1460.	2.8	40
9	Differentiation and Relative Quantitation of Disaccharide Isomers by MALDI-TOF/TOF Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 1525-1530.	6.5	33
10	MALDI-TOF/TOF tandem mass spectrometry imaging reveals non-uniform distribution of disaccharide isomers in plant tissues. <i>Food Chemistry</i> , 2021, 338, 127984.	8.2	33
11	Utilizing a Mini-Humidifier To Deposit Matrix for MALDI Imaging. <i>Analytical Chemistry</i> , 2018, 90, 8309-8313.	6.5	28
12	Laser cleavable probes for <i>in situ</i> multiplexed glycan detection by single cell mass spectrometry. <i>Chemical Science</i> , 2019, 10, 10958-10962.	7.4	26
13	Application of Graphdiyne in Surface-Assisted Laser Desorption Ionization Mass Spectrometry. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1914-1920.	8.0	23
14	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.	3.6	21
15	Direct identification of forensic body fluids by MALDI-MS. <i>Analyst, The</i> , 2019, 144, 7017-7023.	3.5	20
16	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.	4.1	19
17	Development of Visible-Wavelength MALDI Cell Mass Spectrometry for High-Efficiency Single-Cell Analysis. <i>Analytical Chemistry</i> , 2016, 88, 11913-11918.	6.5	19
18	Mass Spectrometry Imaging Reveals In Situ Behaviors of Multiple Components in Aerosol Particles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23225-23231.	13.8	16

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19	Laser Cleavable Probes-Based Cell Surface Engineering for <i>in Situ</i> Sialoglycoconjugates Profiling by Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 6397-6402.	6.5	15
20	In Situ Bioconjugation and Ambient Surface Modification Using Reactive Charged Droplets. <i>Analytical Chemistry</i> , 2015, 87, 3144-3148.	6.5	14
21	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.	6.5	13
22	Ultrafast Photocatalytic Reaction Screening by Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 6564-6570.	6.5	12
23	Pocket-Size <i>“MasSpec Pointer”</i> for Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 13326-13333.	6.5	12
24	The development of charge detection-quadrupole ion trap mass spectrometry driven by rectangular and triangular waves. <i>Analyst</i> , 2012, 137, 1199.	3.5	11
25	Ambient Aerodynamic Desorption/Ionization Method for Microparticle Mass Measurement. <i>Analytical Chemistry</i> , 2013, 85, 4370-4375.	6.5	11
26	Biofluids Metabolic Profiling Based on PS@Fe ₃ O ₄ -NH ₂ Magnetic Beads-Assisted LDI-MS for Liver Cancer Screening. <i>Analytical Chemistry</i> , 2022, 94, 10367-10374.	6.5	11
27	Characterization of Column Packing Materials in High-Performance Liquid Chromatography by Charge-Detection Quadrupole Ion Trap Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 5400-5406.	6.5	10
28	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, 1338-1348.	2.8	9
29	A Miniature Particle Mass Spectrometer. <i>Analytical Chemistry</i> , 2019, 91, 9393-9397.	6.5	9
30	Mass, Size, and Density Measurements of Microparticles in a Quadrupole Ion Trap. <i>Analytical Chemistry</i> , 2019, 91, 13508-13513.	6.5	8
31	Profiling of Urine Carbonyl Metabolic Fingerprints in Bladder Cancer Based on Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 9894-9902.	6.5	7
32	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, 208-216.	1.5	5
33	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> , 2016, 27, 344-351.	2.8	4
34	Laser Desorption/Ionization Mass Spectrometry Imaging: A New Tool to See through Nanoscale Particles in Biological Systems. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	4
35	Mass Spectrometry Imaging Reveals In Situ Behaviors of Multiple Components in Aerosol Particles. <i>Angewandte Chemie</i> , 2021, 133, 23413-23419.	2.0	3
36	High Speed Mass Measurement of a Single Metal-Organic Framework Nanocrystal in a Paul Trap. <i>Analytical Chemistry</i> , 2022, 94, 2686-2692.	6.5	3

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37	Development of capillary-paper spray for small-molecule analysis in complex samples. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1099-1106.	3.7	2
38	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, 1271-1271.	2.8	0
39	Innenr¼cktitelbild: Mass Spectrometry Imaging Reveals In Situ Behaviors of Multiple Components in Aerosol Particles (<i>Angew. Chem.</i> 43/2021). <i>Angewandte Chemie</i> , 2021, 133, 23655-23655.	2.0	0