

Jialing Zhang

List of Publications by Year in descending order

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35
papers

1,666
citations

304743

22
h-index

345221

36
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41
all docs

41
docs citations

41
times ranked

1925
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic study of aristolochic acid I-exposed mice liver by atmospheric pressure matrix-assisted laser desorption/ionization mass spectrometry imaging and machine learning. <i>Talanta</i> , 2022, 241, 123261.	5.5	9
2	MASS SPECTROMETRY TECHNOLOGIES TO ADVANCE CARE FOR CANCER PATIENTS IN CLINICAL AND INTRAOPERATIVE USE. <i>Mass Spectrometry Reviews</i> , 2021, 40, 692-720.	5.4	25
3	Rapid Analysis and Authentication of Meat Using the MasSpec Pen Technology. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3527-3536.	5.2	15
4	Clinical Translation and Evaluation of a Handheld and Biocompatible Mass Spectrometry Probe for Surgical Use. <i>Clinical Chemistry</i> , 2021, 67, 1271-1280.	3.2	10
5	Rapid diagnosis and tumor margin assessment during pancreatic cancer surgery with the MasSpec Pen technology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	33
6	Rapid Screening of COVID-19 Directly from Clinical Nasopharyngeal Swabs Using the MasSpec Pen. <i>Analytical Chemistry</i> , 2021, 93, 12582-12593.	6.5	12
7	Integration of omics analysis and atmospheric pressure MALDI mass spectrometry imaging reveals the cadmium toxicity on female ICR mouse. <i>Science of the Total Environment</i> , 2021, 801, 149803.	8.0	17
8	Integrating the MasSpec Pen to the da Vinci Surgical System for <i>In Vivo</i> Tissue Analysis during a Robotic Assisted Porcine Surgery. <i>Analytical Chemistry</i> , 2020, 92, 11535-11542.	6.5	47
9	Mass Spectrometry Imaging Enables Discrimination of Renal Oncocytoma from Renal Cell Cancer Subtypes and Normal Kidney Tissues. <i>Cancer Research</i> , 2020, 80, 689-698.	0.9	37
10	DESI-MSI and METASPACE indicates lipid abnormalities and altered mitochondrial membrane components in diabetic renal proximal tubules. <i>Metabolomics</i> , 2020, 16, 11.	3.0	34
11	Molecular Imaging of Endometriosis Tissues using Desorption Electrospray Ionization Mass Spectrometry. <i>Scientific Reports</i> , 2019, 9, 15690.	3.3	20
12	Preoperative metabolic classification of thyroid nodules using mass spectrometry imaging of fine-needle aspiration biopsies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21401-21408.	7.1	35
13	Performance of the MasSpec Pen for Rapid Diagnosis of Ovarian Cancer. <i>Clinical Chemistry</i> , 2019, 65, 674-683.	3.2	77
14	DESI Spray Stability in the Negative Ion Mode Is Dependent on Relative Humidity. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 376-380.	2.8	8
15	Multicenter Study Using Desorption-Electrospray-Ionization-Mass-Spectrometry Imaging for Breast-Cancer Diagnosis. <i>Analytical Chemistry</i> , 2018, 90, 11324-11332.	6.5	70
16	Detection of Metastatic Breast and Thyroid Cancer in Lymph Nodes by Desorption Electrospray Ionization Mass Spectrometry Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1166-1174.	2.8	49
17	Metabolic Markers and Statistical Prediction of Serous Ovarian Cancer Aggressiveness by Ambient Ionization Mass Spectrometry Imaging. <i>Cancer Research</i> , 2017, 77, 2903-2913.	0.9	106
18	New Strategy for Further Improving the Detection Sensitivity of Direct Analysis in Real Time-Mass Spectrometry. <i>Journal of Analysis and Testing</i> , 2017, 1, 1.	5.1	4

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19	Nondestructive tissue analysis for ex vivo and in vivo cancer diagnosis using a handheld mass spectrometry system. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	286
20	Will Ambient Ionization Mass Spectrometry Become an Integral Technology in the Operating Room of the Future?. <i>Clinical Chemistry</i> , 2016, 62, 1172-1174.	3.2	19
21	Cardiolipins Are Biomarkers of Mitochondria-Rich Thyroid Oncocytic Tumors. <i>Cancer Research</i> , 2016, 76, 6588-6597.	0.9	63
22	Rapid screening and quantification of glucocorticoids in essential oils using direct analysis in real time mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 133-140.	1.5	14
23	Applications of Nanoparticles in Mass Spectrometry for Highly Sensitive Analysis. , 2016, , 1313-1337.		1
24	Molecular assessment of surgical-resection margins of gastric cancer by mass-spectrometric imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2436-2441.	7.1	185
25	Visualizing Dermal Permeation of Sodium Channel Modulators by Mass Spectrometric Imaging. <i>Journal of the American Chemical Society</i> , 2014, 136, 6401-6405.	13.7	31
26	Ambient Mass Spectrometry Imaging: Plasma Assisted Laser Desorption Ionization Mass Spectrometry Imaging and Its Applications. <i>Analytical Chemistry</i> , 2014, 86, 4164-4169.	6.5	57
27	Study on Variation of Lipids during Different Growth Phases of Living Cyanobacteria Using Easy Ambient Sonic-Spray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 7096-7102.	6.5	24
28	Modes of Activation of Organometallic Iridium Complexes for Catalytic Water and C-H Oxidation. <i>Inorganic Chemistry</i> , 2014, 53, 423-433.	4.0	57
29	Graphite-Coated Paper as Substrate for High Sensitivity Analysis in Ambient Surface-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 3296-3301.	6.5	45
30	Thin Layer Chromatography/Plasma Assisted Multiwavelength Laser Desorption Ionization Mass Spectrometry for Facile Separation and Selective Identification of Low Molecular Weight Compounds. <i>Analytical Chemistry</i> , 2012, 84, 1496-1503.	6.5	79
31	Membrane-Based Continuous Remove of Trifluoroacetic Acid in Mobile Phase for LC-ESI-MS Analysis of Small Molecules and Proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1289-1292.	2.8	9
32	Direct analysis in real time mass spectrometry combined with single-drop liquid-liquid microextraction for the rapid analysis of multiple phytohormones in fruit juice. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2307-2314.	3.7	57
33	Ion-exchange-membrane-based enzyme micro-reactor coupled online with liquid chromatography-mass spectrometry for protein analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 239-246.	3.7	11
34	Rapid screening for synthetic antidiabetic drug adulteration in herbal dietary supplements using direct analysis in real time mass spectrometry. <i>Analyst</i> , The, 2011, 136, 2613.	3.5	66
35	Rh ⁺ -Catalyzed Two-Component [(5+2)+1] Cycloaddition Approach toward [5+5] Ring Systems. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1555-1559.	3.3	42