

Jialing Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,666
citations

304743

22
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

1925
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Performance of the MasSpec Pen for Rapid Diagnosis of Ovarian Cancer. <i>Clinical Chemistry</i> , 2019, 65, 674-683.	3.2	77
6	Multicenter Study Using Desorption-Electrospray-Ionization-Mass-Spectrometry Imaging for Breast-Cancer Diagnosis. <i>Analytical Chemistry</i> , 2018, 90, 11324-11332.	6.5	70
7	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
8	Cardiolipins Are Biomarkers of Mitochondria-Rich Thyroid Oncocytic Tumors. <i>Cancer Research</i> , 2016, 76, 6588-6597.	0.9	63
9	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
10	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
11	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
12	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
13	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
14	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
15	Rh ^I -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
16	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
17	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
18	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

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19	Rapid diagnosis and tumor margin assessment during pancreatic cancer surgery with the MasSpec Pen technology. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	33
20	Visualizing Dermal Permeation of Sodium Channel Modulators by Mass Spectrometric Imaging. Journal of the American Chemical Society, 2014, 136, 6401-6405.	13.7	31
21	MASS SPECTROMETRY TECHNOLOGIES TO ADVANCE CARE FOR CANCER PATIENTS IN CLINICAL AND INTRAOPERATIVE USE. Mass Spectrometry Reviews, 2021, 40, 692-720.	5.4	25
22	Study on Variation of Lipids during Different Growth Phases of Living Cyanobacteria Using Easy Ambient Sonic-Spray Ionization Mass Spectrometry. Analytical Chemistry, 2014, 86, 7096-7102.	6.5	24
23	Molecular Imaging of Endometriosis Tissues using Desorption Electrospray Ionization Mass Spectrometry. Scientific Reports, 2019, 9, 15690.	3.3	20
24	Will Ambient Ionization Mass Spectrometry Become an Integral Technology in the Operating Room of the Future?. Clinical Chemistry, 2016, 62, 1172-1174.	3.2	19
25	Integration of omics analysis and atmospheric pressure MALDI mass spectrometry imaging reveals the cadmium toxicity on female ICR mouse. Science of the Total Environment, 2021, 801, 149803.	8.0	17
26	Rapid Analysis and Authentication of Meat Using the MasSpec Pen Technology. Journal of Agricultural and Food Chemistry, 2021, 69, 3527-3536.	5.2	15
27	Rapid screening and quantification of glucocorticoids in essential oils using direct analysis in real time mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 133-140.	1.5	14
28	Rapid Screening of COVID-19 Directly from Clinical Nasopharyngeal Swabs Using the MasSpec Pen. Analytical Chemistry, 2021, 93, 12582-12593.	6.5	12
29	Ion-exchange-membrane-based enzyme micro-reactor coupled online with liquid chromatography-mass spectrometry for protein analysis. Analytical and Bioanalytical Chemistry, 2012, 403, 239-246.	3.7	11
30	Clinical Translation and Evaluation of a Handheld and Biocompatible Mass Spectrometry Probe for Surgical Use. Clinical Chemistry, 2021, 67, 1271-1280.	3.2	10
31	Membrane-Based Continuous Remove of Trifluoroacetic Acid in Mobile Phase for LC-ESI-MS Analysis of Small Molecules and Proteins. Journal of the American Society for Mass Spectrometry, 2012, 23, 1289-1292.	2.8	9
32	Metabolic study of aristolochic acid I-exposed mice liver by atmospheric pressure matrix-assisted laser desorption/ionization mass spectrometry imaging and machine learning. Talanta, 2022, 241, 123261.	5.5	9
33	DESI Spray Stability in the Negative Ion Mode Is Dependent on Relative Humidity. Journal of the American Society for Mass Spectrometry, 2019, 30, 376-380.	2.8	8
34	New Strategy for Further Improving the Detection Sensitivity of Direct Analysis in Real Time-Mass Spectrometry. Journal of Analysis and Testing, 2017, 1, 1.	5.1	4
35	Applications of Nanoparticles in Mass Spectrometry for Highly Sensitive Analysis. , 2016, , 1313-1337.		1