Rui-ping Zhang

List of Publications by Year
in descending order

77 papers	2,493 citations	236925 25 h-index	214800 47 g-index
79 all docs	79 docs citations	79 times ranked	3357 citing authors

#	Article	IF	Citations
1	Spatially resolved metabolomics to discover tumor-associated metabolic alterations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 52-57.	7.1	222
2	Structural characterization of flavonol 3,7-di-O-glycosides and determination of the glycosylation position by using negative ion electrospray ionization tandem mass spectrometry. Journal of Mass Spectrometry, 2006, 41, 352-360.	1.6	204
3	RRLC-MS/MS-based metabonomics combined with in-depth analysis of metabolic correlation network: finding potential biomarkers for breast cancer. Analyst, The, 2009, 134, 2003.	3.5	160
4	Rational design of a multifunctional molecular dye for dual-modal NIR-II/photoacoustic imaging and photothermal therapy. Chemical Science, 2019, 10, 8348-8353.	7.4	137
5	Global and Targeted Metabolomics of Esophageal Squamous Cell Carcinoma Discovers Potential Diagnostic and Therapeutic Biomarkers. Molecular and Cellular Proteomics, 2013, 12, 1306-1318.	3.8	113
6	Air Flow-Assisted Ionization Imaging Mass Spectrometry Method for Easy Whole-Body Molecular Imaging under Ambient Conditions. Analytical Chemistry, 2013, 85, 2977-2982.	6.5	98
7	Integrated Ionization Approach for RRLCâˆ'MS/MS-based Metabonomics: Finding Potential Biomarkers for Lung Cancer. Journal of Proteome Research, 2010, 9, 4071-4081.	3.7	97
8	Air flow assisted ionization for remote sampling of ambient mass spectrometry and its application. Rapid Communications in Mass Spectrometry, 2011, 25, 843-850.	1.5	73
9	Human Metabolic Responses to Chronic Environmental Polycyclic Aromatic Hydrocarbon Exposure by a Metabolomic Approach. Journal of Proteome Research, 2015, 14, 2583-2593.	3.7	69
10	Ambient Mass Spectrometry Imaging Metabolomics Method Provides Novel Insights into the Action Mechanism of Drug Candidates. Analytical Chemistry, 2015, 87, 5372-5379.	6.5	68
11	Combination of Droplet Extraction and Pico-ESI-MS Allows the Identification of Metabolites from Single Cancer Cells. Analytical Chemistry, 2018, 90, 9897-9903.	6.5	68
12	Liquid Chromatographyâ€“Tandem Mass Spectrometry-Based Plasma Metabonomics Delineate the Effect of Metabolitesâ€™ Stability on Reliability of Potential Biomarkers. Analytical Chemistry, 2013, 85, 2606-2610.	6.5	63
13	Combination of Injection Volume Calibration by Creatinine and MS Signalsâ€™ Normalization to Overcome Urine Variability in LC-MS-Based Metabolomics Studies. Analytical Chemistry, 2013, 85, 7659-7665.	6.5	53
14	Analysis of multiplex endogenous estrogen metabolites in human urine using ultra-fast liquid chromatographyâ€“tandem mass spectrometry: A case study for breast cancer. Analytica Chimica Acta, 2012, 711, 60-68.	5.4	42
15	Development of a Data-Independent Targeted Metabolomics Method for Relative Quantification Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. Analytical Chemistry, 2017, 89, 6954-6962.	6.5	42
16	Assessment of data pre-processing methods for LC-MS/MS-based metabolomics of uterine cervix cancer. Analyst, The, 2013, 138, 2669.	3.5	41
17	Evaluation of the tumor-targeting efficiency and intratumor heterogeneity of anticancer drugs using quantitative mass spectrometry imaging. Theranostics, 2020, 10, 2621-2630.	10.0	37
18	Development of a metabolic pathway-based pseudo-targeted metabolomics method using liquid chromatography coupled with mass spectrometry. Talanta, 2019, 192, 160-168.	5.5	36

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19	Virtual Calibration Quantitative Mass Spectrometry Imaging for Accurately Mapping Analytes across Heterogenous Biotissue. Analytical Chemistry, 2019, 91, 2838-2846.	6.5	35
20	Mapping Metabolic Networks in the Brain by Ambient Mass Spectrometry Imaging and Metabolomics. Analytical Chemistry, 2021, 93, 6746-6754.	6.5	35
21	Methods used to increase the comprehensive coverage of urinary and plasma metabolomes by MS. Bioanalysis, 2016, 8, 981-997.	1.5	32
22	Global metabolomics reveals potential urinary biomarkers of esophageal squamous cell carcinoma for diagnosis and staging. Scientific Reports, 2016, 6, 35010.	3.3	32
23	An investigation of the fragmentation differences of isomeric flavonolâ€Oâ€glycosides under different collisionâ€induced dissociation based mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 1519-1524.	1.5	31
24	Nuclear magnetic resonance and liquid chromatographyâ€“mass spectrometry combined with an incompleted separation strategy for identifying the natural products in crude extract. Analytica Chimica Acta, 2009, 632, 221-228.	5.4	30
25	Spatially resolved metabolomics combined with multicellular tumor spheroids to discover cancer tissue relevant metabolic signatures. Analytica Chimica Acta, 2021, 1155, 338342.	5.4	29
26	Cryptotanshinone alleviates chemotherapy-induced colitis in mice with colon cancer via regulating fecal-bacteria-related lipid metabolism. Pharmacological Research, 2021, 163, 105232.	7.1	27
27	Fast profiling of the integral metabolism of flavonols in the active fraction ofGossypium herbaceam L. using liquid chromatography/multi-stage tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 1877-1888.	1.5	26
28	Time-Course Changes in Potential Biomarkers Detected Using a Metabonomic Approach in Walker 256 Tumor-Bearing Rats. Journal of Proteome Research, 2011, 10, 1953-1961.	3.7	26
29	A graphical data processing pipeline for mass spectrometry imaging-based spatially resolved metabolomics on tumor heterogeneity. Analytica Chimica Acta, 2019, 1077, 183-190.	5.4	26
30	Systematic evaluation of serum and plasma collection on the endogenous metabolome. Bioanalysis, 2017, 9, 239-250.	1.5	24
31	Development of simultaneous targeted metabolite quantification and untargeted metabolomics strategy using dual-column liquid chromatography coupled with tandem mass spectrometry. Analytica Chimica Acta, 2018, 1037, 369-379.	5.4	24
32	Targeted Data-Independent Acquisition and Mining Strategy for Trace Drug Metabolite Identification Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. Analytical Chemistry, 2015, 87, 7535-7539.	6.5	23
33	Direct On-Line Method To Monitor the Dynamic Structure of Noncovalent Titanium Complexes in Solution by Using Cold-Spray Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2006, 78, 4737-4740.	6.5	22
34	Plasma metabolome analysis by integrated ionization rapidâ€resolution liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 2071-2080.	1.5	21
35	The impact of chronic environmental metal and benzene exposure on human urinary metabolome among Chinese children and the elderly population. Ecotoxicology and Environmental Safety, 2019, 169, 232-239.	6.0	20
36	Study of the characteristic fragmentation behavior of hydroquinone glycosides by electrospray ionization tandem mass spectrometry with optimization of collision energy. Journal of Mass Spectrometry, 2009, 44, 1182-1187.	1.6	19

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37	Strategy for Global Profiling and Identification of 2- and 3-Hydroxy Fatty Acids in Plasma by UPLCâ€“MS/MS. Analytical Chemistry, 2020, 92, 5143-5151.	6.5	19
38	Derivatization reagent-assisted enantioseparation of 3-hydroxyaspartate with two chiral centers in rat cerebrospinal fluid by capillary electrophoresis-mass spectrometry. Analytica Chimica Acta, 2019, 1047, 257-266.	5.4	18
39	Gegen Qinlian Decoction Coordinately Regulates PPARÎ³ and PPARÎ± to Improve Glucose and Lipid Homeostasis in Diabetic Rats and Insulin Resistance 3T3-L1 Adipocytes. Frontiers in Pharmacology, 2020, 11, 811.	3.5	18
40	Rewiring of purine metabolism in response to acidosis stress in glioma stem cells. Cell Death and Disease, 2021, 12, 277.	6.3	18
41	Enhanced On-Tissue Chemical Derivatization with Hydrogel Assistance for Mass Spectrometry Imaging. Analytical Chemistry, 2021, 93, 15373-15380.	6.5	17
42	The characteristic fragmentation and rearrangement reaction of cationized glucopyranosyloxybenzyl tartrates by tandem mass spectrometry. Journal of Mass Spectrometry, 2010, 45, 824-828.	1.6	16
43	Simultaneous Structural Identification of Natural Products in Fractions of Crude Extract of the Rare Endangered Plant Anoectochilus roxburghii Using 1H NMR/RRLC-MS Parallel Dynamic Spectroscopy. International Journal of Molecular Sciences, 2011, 12, 2556-2571.	4.1	15
44	Mass spectrometry imaging of intact cholesterol in a mouse esophagus tissue section and mouse zygotes using VUV laser desorption/ionization method. International Journal of Mass Spectrometry, 2018, 432, 9-13.	1.5	15
45	An Organ-Specific Metabolite Annotation Approach for Ambient Mass Spectrometry Imaging Reveals Spatial Metabolic Alterations of a Whole Mouse Body. Analytical Chemistry, 2022, 94, 7286-7294.	6.5	15
46	Characterization of acid-induced protein conformational changes and noncovalent complexes in solution by using coldspray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2009, 20, 845-851.	2.8	14
47	Integrated rapid resolution liquid chromatographyâ€“tandem mass spectrometric approach for screening and identification of metabolites of the potential anticancer agent 3,6,7-trimethoxyphenanthroindolizidine in rat urine. Analytica Chimica Acta, 2012, 731, 60-67.	5.4	14
48	Whole-body spatially-resolved metabolomics method for profiling the metabolic differences of epimer drug candidates using ambient mass spectrometry imaging. Talanta, 2019, 202, 198-206.	5.5	14
49	Hepatoprotective activities of a sesquiterpene-rich fraction from the aerial part of Cichorium glandulosum. Chinese Medicine, 2012, 7, 21.	4.0	13
50	An integrated approach for detection and characterization of the trace impurities in levofloxacin using liquid chromatography-tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 1164-1174.	1.5	13
51	Studies on the Interactions of Copper and Zinc Ions with Î²-Amyloid Peptides by a Surface Plasmon Resonance Biosensor. International Journal of Molecular Sciences, 2012, 13, 11832-11843.	4.1	12
52	A high-performance bio-tissue imaging method using air flow-assisted desorption electrospray ionization coupled with a high-resolution mass spectrometer. Chinese Chemical Letters, 2019, 30, 461-464.	9.0	12
53	Morus alba L. (Sangzhi) Alkaloids Promote Insulin Secretion, Restore Diabetic Î²-Cell Function by Preventing Dedifferentiation and Apoptosis. Frontiers in Pharmacology, 2022, 13, 841981.	3.5	12
54	Optimization and Evaluation Strategy of Esophageal Tissue Preparation Protocols for Metabolomics by LCâ€“MS. Analytical Chemistry, 2016, 88, 3459-3464.	6.5	11

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55	Biotransformation-based metabolomics profiling method for determining and quantitating cancer-related metabolites. Journal of Chromatography A, 2018, 1580, 80-89.	3.7	11
56	Development of a liquid chromatography/electrospray ionization tandem mass spectrometric method for the determination of hydroxyl radical. Rapid Communications in Mass Spectrometry, 2007, 21, 107-111.	1.5	10
57	LC-MS-based metabolomics reveals metabolic signatures related to glioma stem-like cell self-renewal and differentiation. RSC Advances, 2017, 7, 24221-24232.	3.6	10
58	Rapid and sensitive liquid chromatographyâ€“tandem mass spectrometric method for the quantitative determination of potentially harmful substance 5,5â€²-oxydimethylenebis (2-furfural) in traditional Chinese medicine injections. Acta Pharmaceutica Sinica B, 2018, 8, 235-241.	12.0	8
59	Systematic optimization and evaluation of sample pretreatment methods for LC-MS-based metabolomics analysis of adherent mammalian cancer cells. Analytical Methods, 2019, 11, 3014-3022.	2.7	8
60	Development of a high-coverage metabolome relative quantitative method for large-scale sample analysis. Analytica Chimica Acta, 2020, 1109, 44-52.	5.4	8
61	Molecular Pathological Diagnosis of Thyroid Tumors Using Spatially Resolved Metabolomics. Molecules, 2022, 27, 1390.	3.8	8
62	A targeted neurotransmitter quantification and nontargeted metabolic profiling method for pharmacometabolomics analysis of olanzapine by using UPLC-HRMS. RSC Advances, 2020, 10, 18305-18314.	3.6	6
63	Plasma Preparation Method for Metabolomic Analysis Based on Rapid Resolution Liquid Chromatography-Mass Spectrometry. Chinese Journal of Analytical Chemistry, 2011, 39, 1793-1797.	1.7	5
64	A sensitive and rapid HPLCâ€“MS/MS method for the quantitative determination of trace amount of bromocriptine in small clinical prolactinoma tissue. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 989, 91-97.	2.3	5
65	Fabrication of homogenous threeâ€dimensional biomimetic tissue for mass spectrometry imaging. Journal of Mass Spectrometry, 2019, 54, 378-388.	1.6	5
66	Writing sequence identification of seals and signatures in documents using ambient mass spectrometry imaging with chemometric methods. Talanta, 2021, 235, 122804.	5.5	5
67	A rapid and sensitive liquid chromatography-tandem mass spectrometry method for the quantitation of S-phenylmercapturic acid in human urine. Analytical Methods, 2013, 5, 6081.	2.7	4
68	Development of methionine methylation profiling and relative quantification in human breast cancer cells based on metabolic stable isotope labeling. Analyst, The, 2019, 144, 3988-3998.	3.5	4
69	Contrast-enhanced CT-based radiomics model for differentiating risk subgroups of thymic epithelial tumors. BMC Medical Imaging, 2022, 22, 37.	2.7	4
70	Ratiometric Mass Spectrometry Imaging for Stain-Free Delineation of Ischemic Tissue and Spatial Profiling of Ischemia-Related Molecular Signatures. Frontiers in Chemistry, 2021, 9, 807868.	3.6	4
71	Norm ISWSVR: A Data Integration and Normalization Approach for Large-Scale Metabolomics. Analytical Chemistry, 2022, 94, 7500-7509.	6.5	4
72	A rapid and sensitive UPLCâ€“MS/MS method for quantitative determination of arformoterol in rat plasma, lung and trachea tissues. Chinese Chemical Letters, 2018, 29, 1284-1286.	9.0	3

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73	Development and validation of a sensitive and reliable targeted metabolomics method for the quantification of cardiovascular diseaseâ€related biomarkers in plasma using ultrahighâ€performance liquid chromatographyâ€“tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2022, 36, e9292.	1.5	3
74	Characteristic elimination reactions of 1,2-disubstituted phenylbenzimidazoles and their isosteres 2,3-disubstituted phenylindoles in electron ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 584-587.	1.5	2
75	Investigation of interconversion between aspacochiosides A and B by fast-atom bombardment mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 328-330.	1.5	1
76	Hair growth predicts a depression-like phenotype in rats as a mirror of stress traceability. Neurochemistry International, 2021, 148, 105110.	3.8	1
77	Fast and Direct Analysis of Active Ingredient in Unknown Tablet Using Air Flow Assisted Ionization-Mass Spectrometry. Chinese Journal of Analytical Chemistry, 2012, 39, 1743-1747.	1.7	1