

Rui-ping Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/709547/publications.pdf>

Version: 2024-02-01

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	Molecular Pathological Diagnosis of Thyroid Tumors Using Spatially Resolved Metabolomics. <i>Molecules</i> , 2022, 27, 1390.	3.8	8
2	Contrast-enhanced CT-based radiomics model for differentiating risk subgroups of thymic epithelial tumors. <i>BMC Medical Imaging</i> , 2022, 22, 37.	2.7	4
3	Morus alba L. (Sangzhi) Alkaloids Promote Insulin Secretion, Restore Diabetic β -Cell Function by Preventing Dedifferentiation and Apoptosis. <i>Frontiers in Pharmacology</i> , 2022, 13, 841981.	3.5	12
4	Development and validation of a sensitive and reliable targeted metabolomics method for the quantification of cardiovascular disease-related biomarkers in plasma using ultrahigh-performance liquid chromatography-tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9292.	1.5	3
5	An Organ-Specific Metabolite Annotation Approach for Ambient Mass Spectrometry Imaging Reveals Spatial Metabolic Alterations of a Whole Mouse Body. <i>Analytical Chemistry</i> , 2022, 94, 7286-7294.	6.5	15
6	Norm ISWSVR: A Data Integration and Normalization Approach for Large-Scale Metabolomics. <i>Analytical Chemistry</i> , 2022, 94, 7500-7509.	6.5	4
7	Cryptotanshinone alleviates chemotherapy-induced colitis in mice with colon cancer via regulating fecal-bacteria-related lipid metabolism. <i>Pharmacological Research</i> , 2021, 163, 105232.	7.1	27
8	Rewiring of purine metabolism in response to acidosis stress in glioma stem cells. <i>Cell Death and Disease</i> , 2021, 12, 277.	6.3	18
9	Spatially resolved metabolomics combined with multicellular tumor spheroids to discover cancer tissue relevant metabolic signatures. <i>Analytica Chimica Acta</i> , 2021, 1155, 338342.	5.4	29
10	Mapping Metabolic Networks in the Brain by Ambient Mass Spectrometry Imaging and Metabolomics. <i>Analytical Chemistry</i> , 2021, 93, 6746-6754.	6.5	35
11	Hair growth predicts a depression-like phenotype in rats as a mirror of stress traceability. <i>Neurochemistry International</i> , 2021, 148, 105110.	3.8	1
12	Writing sequence identification of seals and signatures in documents using ambient mass spectrometry imaging with chemometric methods. <i>Talanta</i> , 2021, 235, 122804.	5.5	5
13	Enhanced On-Tissue Chemical Derivatization with Hydrogel Assistance for Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2021, 93, 15373-15380.	6.5	17
14	Ratiometric Mass Spectrometry Imaging for Stain-Free Delineation of Ischemic Tissue and Spatial Profiling of Ischemia-Related Molecular Signatures. <i>Frontiers in Chemistry</i> , 2021, 9, 807868.	3.6	4
15	A targeted neurotransmitter quantification and nontargeted metabolic profiling method for pharmacometabolomics analysis of olanzapine by using UPLC-HRMS. <i>RSC Advances</i> , 2020, 10, 18305-18314.	3.6	6
16	Gegen Qinlian Decoction Coordinately Regulates PPAR β and PPAR δ to Improve Glucose and Lipid Homeostasis in Diabetic Rats and Insulin Resistance 3T3-L1 Adipocytes. <i>Frontiers in Pharmacology</i> , 2020, 11, 811.	3.5	18
17	Strategy for Global Profiling and Identification of 2- and 3-Hydroxy Fatty Acids in Plasma by UPLC-MS/MS. <i>Analytical Chemistry</i> , 2020, 92, 5143-5151.	6.5	19
18	Evaluation of the tumor-targeting efficiency and intratumor heterogeneity of anticancer drugs using quantitative mass spectrometry imaging. <i>Theranostics</i> , 2020, 10, 2621-2630.	10.0	37

#	ARTICLE	IF	CITATIONS
19	Development of a high-coverage metabolome relative quantitative method for large-scale sample analysis. <i>Analytica Chimica Acta</i> , 2020, 1109, 44-52.	5.4	8
20	A high-performance bio-tissue imaging method using air flow-assisted desorption electrospray ionization coupled with a high-resolution mass spectrometer. <i>Chinese Chemical Letters</i> , 2019, 30, 461-464.	9.0	12
21	Rational design of a multifunctional molecular dye for dual-modal NIR-II/photoacoustic imaging and photothermal therapy. <i>Chemical Science</i> , 2019, 10, 8348-8353.	7.4	137
22	A graphical data processing pipeline for mass spectrometry imaging-based spatially resolved metabolomics on tumor heterogeneity. <i>Analytica Chimica Acta</i> , 2019, 1077, 183-190.	5.4	26
23	Systematic optimization and evaluation of sample pretreatment methods for LC-MS-based metabolomics analysis of adherent mammalian cancer cells. <i>Analytical Methods</i> , 2019, 11, 3014-3022.	2.7	8
24	Development of methionine methylation profiling and relative quantification in human breast cancer cells based on metabolic stable isotope labeling. <i>Analyst</i> , The, 2019, 144, 3988-3998.	3.5	4
25	Whole-body spatially-resolved metabolomics method for profiling the metabolic differences of epimer drug candidates using ambient mass spectrometry imaging. <i>Talanta</i> , 2019, 202, 198-206.	5.5	14
26	Fabrication of homogenous three-dimensional biomimetic tissue for mass spectrometry imaging. <i>Journal of Mass Spectrometry</i> , 2019, 54, 378-388.	1.6	5
27	Development of a metabolic pathway-based pseudo-targeted metabolomics method using liquid chromatography coupled with mass spectrometry. <i>Talanta</i> , 2019, 192, 160-168.	5.5	36
28	Spatially resolved metabolomics to discover tumor-associated metabolic alterations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 52-57.	7.1	222
29	The impact of chronic environmental metal and benzene exposure on human urinary metabolome among Chinese children and the elderly population. <i>Ecotoxicology and Environmental Safety</i> , 2019, 169, 232-239.	6.0	20
30	Virtual Calibration Quantitative Mass Spectrometry Imaging for Accurately Mapping Analytes across Heterogenous Biotissue. <i>Analytical Chemistry</i> , 2019, 91, 2838-2846.	6.5	35
31	Derivatization reagent-assisted enantioseparation of 3-hydroxyaspartate with two chiral centers in rat cerebrospinal fluid by capillary electrophoresis-mass spectrometry. <i>Analytica Chimica Acta</i> , 2019, 1047, 257-266.	5.4	18
32	Rapid and sensitive liquid chromatography-tandem mass spectrometric method for the quantitative determination of potentially harmful substance 5,5-dimethyl-2-furfural in traditional Chinese medicine injections. <i>Acta Pharmaceutica Sinica B</i> , 2018, 8, 235-241.	12.0	8
33	A rapid and sensitive UPLC-MS/MS method for quantitative determination of arformoterol in rat plasma, lung and trachea tissues. <i>Chinese Chemical Letters</i> , 2018, 29, 1284-1286.	9.0	3
34	Biotransformation-based metabolomics profiling method for determining and quantitating cancer-related metabolites. <i>Journal of Chromatography A</i> , 2018, 1580, 80-89.	3.7	11
35	Development of simultaneous targeted metabolite quantification and untargeted metabolomics strategy using dual-column liquid chromatography coupled with tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2018, 1037, 369-379.	5.4	24
36	Combination of Droplet Extraction and Pico-ESI-MS Allows the Identification of Metabolites from Single Cancer Cells. <i>Analytical Chemistry</i> , 2018, 90, 9897-9903.	6.5	68

#	ARTICLE	IF	CITATIONS
37	Mass spectrometry imaging of intact cholesterol in a mouse esophagus tissue section and mouse zygotes using VUV laser desorption/ionization method. <i>International Journal of Mass Spectrometry</i> , 2018, 432, 9-13.	1.5	15
38	Systematic evaluation of serum and plasma collection on the endogenous metabolome. <i>Bioanalysis</i> , 2017, 9, 239-250.	1.5	24
39	Development of a Data-Independent Targeted Metabolomics Method for Relative Quantification Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 6954-6962.	6.5	42
40	LC-MS-based metabolomics reveals metabolic signatures related to glioma stem-like cell self-renewal and differentiation. <i>RSC Advances</i> , 2017, 7, 24221-24232.	3.6	10
41	Methods used to increase the comprehensive coverage of urinary and plasma metabolomes by MS. <i>Bioanalysis</i> , 2016, 8, 981-997.	1.5	32
42	Global metabolomics reveals potential urinary biomarkers of esophageal squamous cell carcinoma for diagnosis and staging. <i>Scientific Reports</i> , 2016, 6, 35010.	3.3	32
43	Optimization and Evaluation Strategy of Esophageal Tissue Preparation Protocols for Metabolomics by LC-MS. <i>Analytical Chemistry</i> , 2016, 88, 3459-3464.	6.5	11
44	Ambient Mass Spectrometry Imaging Metabolomics Method Provides Novel Insights into the Action Mechanism of Drug Candidates. <i>Analytical Chemistry</i> , 2015, 87, 5372-5379.	6.5	68
45	Human Metabolic Responses to Chronic Environmental Polycyclic Aromatic Hydrocarbon Exposure by a Metabolomic Approach. <i>Journal of Proteome Research</i> , 2015, 14, 2583-2593.	3.7	69
46	Targeted Data-Independent Acquisition and Mining Strategy for Trace Drug Metabolite Identification Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 7535-7539.	6.5	23
47	A sensitive and rapid HPLC-MS/MS method for the quantitative determination of trace amount of bromocriptine in small clinical prolactinoma tissue. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 989, 91-97.	2.3	5
48	An integrated approach for detection and characterization of the trace impurities in levofloxacin using liquid chromatography-tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1164-1174.	1.5	13
49	Combination of Injection Volume Calibration by Creatinine and MS Signals™ Normalization to Overcome Urine Variability in LC-MS-Based Metabolomics Studies. <i>Analytical Chemistry</i> , 2013, 85, 7659-7665.	6.5	53
50	Plasma metabolome analysis by integrated ionization rapid-resolution liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2071-2080.	1.5	21
51	Assessment of data pre-processing methods for LC-MS/MS-based metabolomics of uterine cervix cancer. <i>Analyst</i> , The, 2013, 138, 2669.	3.5	41
52	A rapid and sensitive liquid chromatography-tandem mass spectrometry method for the quantitation of S-phenylmercapturic acid in human urine. <i>Analytical Methods</i> , 2013, 5, 6081.	2.7	4
53	Air Flow-Assisted Ionization Imaging Mass Spectrometry Method for Easy Whole-Body Molecular Imaging under Ambient Conditions. <i>Analytical Chemistry</i> , 2013, 85, 2977-2982.	6.5	98
54	Liquid Chromatography-Tandem Mass Spectrometry-Based Plasma Metabonomics Delineate the Effect of Metabolites™ Stability on Reliability of Potential Biomarkers. <i>Analytical Chemistry</i> , 2013, 85, 2606-2610.	6.5	63

#	ARTICLE	IF	CITATIONS
55	Global and Targeted Metabolomics of Esophageal Squamous Cell Carcinoma Discovers Potential Diagnostic and Therapeutic Biomarkers. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1306-1318.	3.8	113
56	Studies on the Interactions of Copper and Zinc Ions with β -Amyloid Peptides by a Surface Plasmon Resonance Biosensor. <i>International Journal of Molecular Sciences</i> , 2012, 13, 11832-11843.	4.1	12
57	Analysis of multiplex endogenous estrogen metabolites in human urine using ultra-fast liquid chromatography-tandem mass spectrometry: A case study for breast cancer. <i>Analytica Chimica Acta</i> , 2012, 711, 60-68.	5.4	42
58	Integrated rapid resolution liquid chromatography-tandem mass spectrometric approach for screening and identification of metabolites of the potential anticancer agent 3,6,7-trimethoxyphenanthroindolizidine in rat urine. <i>Analytica Chimica Acta</i> , 2012, 731, 60-67.	5.4	14
59	Hepatoprotective activities of a sesquiterpene-rich fraction from the aerial part of <i>Cichorium glandulosum</i> . <i>Chinese Medicine</i> , 2012, 7, 21.	4.0	13
60	Fast and Direct Analysis of Active Ingredient in Unknown Tablet Using Air Flow Assisted Ionization-Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2012, 39, 1743-1747.	1.7	1
61	Time-Course Changes in Potential Biomarkers Detected Using a Metabonomic Approach in Walker 256 Tumor-Bearing Rats. <i>Journal of Proteome Research</i> , 2011, 10, 1953-1961.	3.7	26
62	Plasma Preparation Method for Metabolomic Analysis Based on Rapid Resolution Liquid Chromatography-Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2011, 39, 1793-1797.	1.7	5
63	Air flow assisted ionization for remote sampling of ambient mass spectrometry and its application. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 843-850.	1.5	73
64	Simultaneous Structural Identification of Natural Products in Fractions of Crude Extract of the Rare Endangered Plant <i>Anoectochilus roxburghii</i> Using 1H NMR/RRLC-MS Parallel Dynamic Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2011, 12, 2556-2571.	4.1	15
65	The characteristic fragmentation and rearrangement reaction of cationized glucopyranosyloxybenzyl tartrates by tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2010, 45, 824-828.	1.6	16
66	Integrated Ionization Approach for RRLC-MS/MS-based Metabonomics: Finding Potential Biomarkers for Lung Cancer. <i>Journal of Proteome Research</i> , 2010, 9, 4071-4081.	3.7	97
67	Study of the characteristic fragmentation behavior of hydroquinone glycosides by electrospray ionization tandem mass spectrometry with optimization of collision energy. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1182-1187.	1.6	19
68	Characterization of acid-induced protein conformational changes and noncovalent complexes in solution by using coldspray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 845-851.	2.8	14
69	An investigation of the fragmentation differences of isomeric flavonol glycosides under different collision-induced dissociation based mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1519-1524.	1.5	31
70	Nuclear magnetic resonance and liquid chromatography-mass spectrometry combined with an incompleted separation strategy for identifying the natural products in crude extract. <i>Analytica Chimica Acta</i> , 2009, 632, 221-228.	5.4	30
71	RRLC-MS/MS-based metabonomics combined with in-depth analysis of metabolic correlation network: finding potential biomarkers for breast cancer. <i>Analyst</i> , 2009, 134, 2003.	3.5	160
72	Development of a liquid chromatography/electrospray ionization tandem mass spectrometric method for the determination of hydroxyl radical. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 107-111.	1.5	10

#	ARTICLE	IF	CITATIONS
73	Fast profiling of the integral metabolism of flavonols in the active fraction of <i>Gossypium herbaceum</i> L. using liquid chromatography/multi-stage tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1877-1888.	1.5	26
74	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. <i>Analytical Chemistry</i> , 2006, 78, 4737-4740.	6.5	22
75	Investigation of interconversion between aspacochiosides A and B by fast-atom bombardment mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 328-330.	1.5	1
76	Structural characterization of flavonol 3,7-di-O-glycosides and determination of the glycosylation position by using negative ion electrospray ionization tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2006, 41, 352-360.	1.6	204
77	Characteristic elimination reactions of 1,2-disubstituted phenylbenzimidazoles and their isosteres 2,3-disubstituted phenylindoles in electron ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 584-587.	1.5	2