

# Zheng-Jiang Zhu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77  
papers

4,926  
citations

38  
h-index

70  
g-index

81  
ext. papers

6,124  
ext. citations

10.5  
avg, IF

5.7  
L-index

#	Paper	IF	Citations
77	Trapped ion mobility spectrometry-mass spectrometry improves the coverage and accuracy of four-dimensional untargeted lipidomics. <i>Analytica Chimica Acta</i> , <b>2022</b> , 1210, 339886	6.6	0
76	RIPK1 regulates starvation resistance by modulating aspartate catabolism. <i>Nature Communications</i> , <b>2021</b> , 12, 6144	17.4	1
75	A serum metabolomics analysis reveals a panel of screening metabolic biomarkers for esophageal squamous cell carcinoma. <i>Clinical and Translational Medicine</i> , <b>2021</b> , 11, e419	5.7	2
74	Multi-dimensional characterization and identification of sterols in untargeted LC-MS analysis using all ion fragmentation technology. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1142, 108-117	6.6	5
73	Ion mobility-based sterolomics reveals spatially and temporally distinctive sterol lipids in the mouse brain. <i>Nature Communications</i> , <b>2021</b> , 12, 4343	17.4	6
72	NEK1-mediated retromer trafficking promotes blood-brain barrier integrity by regulating glucose metabolism and RIPK1 activation. <i>Nature Communications</i> , <b>2021</b> , 12, 4826	17.4	4
71	Serum Metabolomics Identifies Dysregulated Pathways and Potential Metabolic Biomarkers for Hyperuricemia and Gout. <i>Arthritis and Rheumatology</i> , <b>2021</b> , 73, 1738-1748	9.5	7
70	WavelCA 2.0: a novel batch effect removal method for untargeted metabolomics data without using batch information. <i>Metabolomics</i> , <b>2021</b> , 17, 87	4.7	2
69	The Application of Ion Mobility-Mass Spectrometry in Untargeted Metabolomics: from Separation to Identification. <i>Journal of Analysis and Testing</i> , <b>2020</b> , 4, 163-174	3.2	15
68	A lipidome atlas in MS-DIAL 4. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1159-1163	44.5	141
67	Different regions of synaptic vesicle membrane regulate VAMP2 conformation for the SNARE assembly. <i>Nature Communications</i> , <b>2020</b> , 11, 1531	17.4	10
66	NormAE: Deep Adversarial Learning Model to Remove Batch Effects in Liquid Chromatography Mass Spectrometry-Based Metabolomics Data. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 5082-5090	7.8	11
65	Subacute Toxicity Study of Nicotinamide Mononucleotide via Oral Administration. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 604404	5.6	4
64	Overview of Tandem Mass Spectral and Metabolite Databases for Metabolite Identification in Metabolomics. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2104, 139-148	1.4	2
63	Aspirin Reshapes Acetylomes in Inflammatory and Cancer Cells via CoA-Dependent and CoA-Independent Pathways. <i>Journal of Proteome Research</i> , <b>2020</b> , 19, 962-972	5.6	2
62	Daily Oscillation of the Excitation-Inhibition Balance in Visual Cortical Circuits. <i>Neuron</i> , <b>2020</b> , 105, 621-629	29.4	30
61	Development of a combined strategy for accurate lipid structural identification and quantification in ion-mobility mass spectrometry based untargeted lipidomics. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1136, 115-124	6.6	14

60	Ion mobility collision cross-section atlas for known and unknown metabolite annotation in untargeted metabolomics. <i>Nature Communications</i> , <b>2020</b> , 11, 4334	17.4	68
59	Exploring the protective effects of Danqi Tongmai tablet on acute myocardial ischemia rats by comprehensive metabolomics profiling. <i>Phytomedicine</i> , <b>2020</b> , 74, 152918	6.5	7
58	The Use of LipidIMMS Analyzer for Lipid Identification in Ion Mobility-Mass Spectrometry-Based Untargeted Lipidomics. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2084, 269-282	1.4	1
57	A vitamin-C-derived DNA modification catalysed by an algal TET homologue. <i>Nature</i> , <b>2019</b> , 569, 581-585	50.4	41
56	The emerging role of ion mobility-mass spectrometry in lipidomics to facilitate lipid separation and identification. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 116, 332-339	14.6	31
55	Advancing untargeted metabolomics using data-independent acquisition mass spectrometry technology. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 4349-4357	4.4	53
54	Metabolic reaction network-based recursive metabolite annotation for untargeted metabolomics. <i>Nature Communications</i> , <b>2019</b> , 10, 1516	17.4	108
53	WaveICA: A novel algorithm to remove batch effects for large-scale untargeted metabolomics data based on wavelet analysis. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1061, 60-69	6.6	21
52	LipidIMMS Analyzer: integrating multi-dimensional information to support lipid identification in ion mobility-mass spectrometry based lipidomics. <i>Bioinformatics</i> , <b>2019</b> , 35, 698-700	7.2	35
51	DecoMetDIA: Deconvolution of Multiplexed MS/MS Spectra for Metabolite Identification in SWATH-MS-Based Untargeted Metabolomics. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 11897-11904	7.8	21
50	Development of a Correlative Strategy To Discover Colorectal Tumor Tissue Derived Metabolite Biomarkers in Plasma Using Untargeted Metabolomics. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 2401-2408	7.8	17
49	MetFlow: an interactive and integrated workflow for metabolomics data cleaning and differential metabolite discovery. <i>Bioinformatics</i> , <b>2019</b> , 35, 2870-2872	7.2	16
48	A High-Throughput Targeted Metabolomics Workflow for the Detection of 200 Polar Metabolites in Central Carbon Metabolism. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1859, 263-274	1.4	10
47	SWATHtoMRM: Development of High-Coverage Targeted Metabolomics Method Using SWATH Technology for Biomarker Discovery. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 4062-4070	7.8	57
46	Metabolomics approach for predicting response to neoadjuvant chemotherapy for colorectal cancer. <i>Metabolomics</i> , <b>2018</b> , 14, 110	4.7	8
45	Stable-isotope Labeled Metabolic Analysis in : From Experimental Setup to Data Analysis. <i>Bio-protocol</i> , <b>2018</b> , 8, e3015	0.9	1
44	Advancing the large-scale CCS database for metabolomics and lipidomics at the machine-learning era. <i>Current Opinion in Chemical Biology</i> , <b>2018</b> , 42, 34-41	9.7	46
43	Predicting the pathological response to neoadjuvant chemoradiation using untargeted metabolomics in locally advanced rectal cancer. <i>Radiotherapy and Oncology</i> , <b>2018</b> , 128, 548-556	5.3	22

42	Epigenetic drift of H3K27me3 in aging links glycolysis to healthy longevity in. <i>ELife</i> , <b>2018</b> , 7,	8.9	58
41	Comprehensive metabolomics identified lipid peroxidation as a prominent feature in human plasma of patients with coronary heart diseases. <i>Redox Biology</i> , <b>2017</b> , 12, 899-907	11.3	42
40	MetCCS predictor: a web server for predicting collision cross-section values of metabolites in ion mobility-mass spectrometry based metabolomics. <i>Bioinformatics</i> , <b>2017</b> , 33, 2235-2237	7.2	48
39	Discovery of novel 1,2,3,4-tetrahydrobenzo[4, 5]thieno[2, 3-c]pyridine derivatives as potent and selective CYP17 inhibitors. <i>European Journal of Medicinal Chemistry</i> , <b>2017</b> , 132, 157-172	6.8	5
38	CLOCK Acetylates ASS1 to Drive Circadian Rhythm of Ureagenesis. <i>Molecular Cell</i> , <b>2017</b> , 68, 198-209.e6	17.6	33
37	Proteome-Wide Analysis of N-Glycosylation Stoichiometry Using SWATH Technology. <i>Journal of Proteome Research</i> , <b>2017</b> , 16, 3830-3840	5.6	9
36	LipidCCS: Prediction of Collision Cross-Section Values for Lipids with High Precision To Support Ion Mobility-Mass Spectrometry-Based Lipidomics. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9559-9566	7.8	107
35	Absolute quantitative lipidomics reveals lipidome-wide alterations in aging brain. <i>Metabolomics</i> , <b>2017</b> , 14, 5	4.7	38
34	MetDIA: Targeted Metabolite Extraction of Multiplexed MS/MS Spectra Generated by Data-Independent Acquisition. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8757-64	7.8	71
33	Large-Scale Prediction of Collision Cross-Section Values for Metabolites in Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 11084-11091	7.8	116
32	Serum metabolomics for early diagnosis of esophageal squamous cell carcinoma by UHPLC-QTOF/MS. <i>Metabolomics</i> , <b>2016</b> , 12, 1	4.7	56
31	Normalization and integration of large-scale metabolomics data using support vector regression. <i>Metabolomics</i> , <b>2016</b> , 12, 1	4.7	82
30	Comprehensive bioimaging with fluorinated nanoparticles using breathable liquids. <i>Nature Communications</i> , <b>2015</b> , 6, 5998	17.4	39
29	An integrated targeted metabolomic platform for high-throughput metabolite profiling and automated data processing. <i>Metabolomics</i> , <b>2015</b> , 11, 1575-1586	4.7	58
28	Degradation of HK2 by chaperone-mediated autophagy promotes metabolic catastrophe and cell death. <i>Journal of Cell Biology</i> , <b>2015</b> , 210, 705-16	7.3	73
27	Regulating exocytosis of nanoparticles via host-guest chemistry. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 2474-2479	3.9	27
26	Arteriovenous Blood Metabolomics: A Readout of Intra-Tissue Metabostasis. <i>Scientific Reports</i> , <b>2015</b> , 5, 12757	4.9	47
25	Degradation of HK2 by chaperone-mediated autophagy promotes metabolic catastrophe and cell death. <i>Journal of Experimental Medicine</i> , <b>2015</b> , 212, 212100IA79	16.6	

24	Toward $\mu$ m scale metabolite profiling: a dual separation-mass spectrometry approach for coverage of lipid and central carbon metabolism. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6876-84	7.8	204
23	Direct delivery of functional proteins and enzymes to the cytosol using nanoparticle-stabilized nanocapsules. <i>ACS Nano</i> , <b>2013</b> , 7, 6667-6673	16.7	154
22	Liquid chromatography quadrupole time-of-flight mass spectrometry characterization of metabolites guided by the METLIN database. <i>Nature Protocols</i> , <b>2013</b> , 8, 451-60	18.8	288
21	Characterization of surface ligands on functionalized magnetic nanoparticles using laser desorption/ionization mass spectrometry (LDI-MS). <i>Nanoscale</i> , <b>2013</b> , 5, 5063-6	7.7	21
20	Effect of surface charge on the uptake and distribution of gold nanoparticles in four plant species. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 12391-8	10.3	245
19	Determination of the intracellular stability of gold nanoparticle monolayers using mass spectrometry. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4321-6	7.8	35
18	An accelerated workflow for untargeted metabolomics using the METLIN database. <i>Nature Biotechnology</i> , <b>2012</b> , 30, 826-8	44.5	378
17	The interplay of monolayer structure and serum protein interactions on the cellular uptake of gold nanoparticles. <i>Small</i> , <b>2012</b> , 8, 2659-63	11	60
16	Stability of quantum dots in live cells. <i>Nature Chemistry</i> , <b>2011</b> , 3, 963-8	17.6	107
15	Colorimetric bacteria sensing using a supramolecular enzyme-nanoparticle biosensor. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 9650-3	16.4	273
14	Drug Delivery Using Nanoparticle-Stabilized Nanocapsules. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 497-501	3.6	17
13	Drug delivery using nanoparticle-stabilized nanocapsules. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 477-81	16.4	103
12	Recognition-mediated activation of therapeutic gold nanoparticles inside living cells. <i>Nature Chemistry</i> , <b>2010</b> , 2, 962-6	17.6	265
11	Intracellular delivery of a membrane-impermeable enzyme in active form using functionalized gold nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 2642-5	16.4	153
10	Laser desorption/ionization mass spectrometry analysis of monolayer-protected gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 396, 1025-35	4.4	53
9	The role of surface functionality on acute cytotoxicity, ROS generation and DNA damage by cationic gold nanoparticles. <i>Small</i> , <b>2010</b> , 6, 2246-9	11	203
8	Surface properties dictate uptake, distribution, excretion, and toxicity of nanoparticles in fish. <i>Small</i> , <b>2010</b> , 6, 2261-5	11	100
7	Entrapment of hydrophobic drugs in nanoparticle monolayers with efficient release into cancer cells. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 1360-1	16.4	276

6	Engineered nanoparticle surfaces for improved mass spectrometric analyses. <i>Analyst, The</i> , <b>2009</b> , 134, 2183-8	5	50
5	Multiplexed screening of cellular uptake of gold nanoparticles using laser desorption/ionization mass spectrometry. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 14139-43	16.4	107
4	One-step immobilization of glucose oxidase in a silica matrix on a Pt electrode by an electrochemically induced sol-gel process. <i>Langmuir</i> , <b>2007</b> , 23, 11896-900	4	95
3	MS-DIAL 4: accelerating lipidomics using an MS/MS, CCS, and retention time atlas		8
2	Metabolic Reaction Network-based Recursive Metabolite Identification for Untargeted Metabolomics		1
1	metID: A R package for automatable compound annotation for LCMS-based data		1