

Zheng-Jiang Zhu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3962469/zheng-jiang-zhu-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	An accelerated workflow for untargeted metabolomics using the METLIN database. <i>Nature Biotechnology</i> , 2012 , 30, 826-8	44.5	378
76	Liquid chromatography quadrupole time-of-flight mass spectrometry characterization of metabolites guided by the METLIN database. <i>Nature Protocols</i> , 2013 , 8, 451-60	18.8	288
75	Entrapment of hydrophobic drugs in nanoparticle monolayers with efficient release into cancer cells. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1360-1	16.4	276
74	Colorimetric bacteria sensing using a supramolecular enzyme-nanoparticle biosensor. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9650-3	16.4	273
73	Recognition-mediated activation of therapeutic gold nanoparticles inside living cells. <i>Nature Chemistry</i> , 2010 , 2, 962-6	17.6	265
72	Effect of surface charge on the uptake and distribution of gold nanoparticles in four plant species. <i>Environmental Science & Technology</i> , 2012 , 46, 12391-8	10.3	245
71	Toward ω mic scale metabolite profiling: a dual separation-mass spectrometry approach for coverage of lipid and central carbon metabolism. <i>Analytical Chemistry</i> , 2013 , 85, 6876-84	7.8	204
70	The role of surface functionality on acute cytotoxicity, ROS generation and DNA damage by cationic gold nanoparticles. <i>Small</i> , 2010 , 6, 2246-9	11	203
69	Direct delivery of functional proteins and enzymes to the cytosol using nanoparticle-stabilized nanocapsules. <i>ACS Nano</i> , 2013 , 7, 6667-6673	16.7	154
68	Intracellular delivery of a membrane-impermeable enzyme in active form using functionalized gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2642-5	16.4	153
67	A lipidome atlas in MS-DIAL 4. <i>Nature Biotechnology</i> , 2020 , 38, 1159-1163	44.5	141
66	Large-Scale Prediction of Collision Cross-Section Values for Metabolites in Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 11084-11091	7.8	116
65	Metabolic reaction network-based recursive metabolite annotation for untargeted metabolomics. <i>Nature Communications</i> , 2019 , 10, 1516	17.4	108
64	LipidCCS: Prediction of Collision Cross-Section Values for Lipids with High Precision To Support Ion Mobility-Mass Spectrometry-Based Lipidomics. <i>Analytical Chemistry</i> , 2017 , 89, 9559-9566	7.8	107
63	Stability of quantum dots in live cells. <i>Nature Chemistry</i> , 2011 , 3, 963-8	17.6	107
62	Multiplexed screening of cellular uptake of gold nanoparticles using laser desorption/ionization mass spectrometry. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14139-43	16.4	107
61	Drug delivery using nanoparticle-stabilized nanocapsules. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 477-81	16.4	103

60	Surface properties dictate uptake, distribution, excretion, and toxicity of nanoparticles in fish. <i>Small</i> , 2010 , 6, 2261-5	11	100
59	One-step immobilization of glucose oxidase in a silica matrix on a Pt electrode by an electrochemically induced sol-gel process. <i>Langmuir</i> , 2007 , 23, 11896-900	4	95
58	Normalization and integration of large-scale metabolomics data using support vector regression. <i>Metabolomics</i> , 2016 , 12, 1	4.7	82
57	Degradation of HK2 by chaperone-mediated autophagy promotes metabolic catastrophe and cell death. <i>Journal of Cell Biology</i> , 2015 , 210, 705-16	7.3	73
56	MetDIA: Targeted Metabolite Extraction of Multiplexed MS/MS Spectra Generated by Data-Independent Acquisition. <i>Analytical Chemistry</i> , 2016 , 88, 8757-64	7.8	71
55	Ion mobility collision cross-section atlas for known and unknown metabolite annotation in untargeted metabolomics. <i>Nature Communications</i> , 2020 , 11, 4334	17.4	68
54	The interplay of monolayer structure and serum protein interactions on the cellular uptake of gold nanoparticles. <i>Small</i> , 2012 , 8, 2659-63	11	60
53	An integrated targeted metabolomic platform for high-throughput metabolite profiling and automated data processing. <i>Metabolomics</i> , 2015 , 11, 1575-1586	4.7	58
52	Epigenetic drift of H3K27me3 in aging links glycolysis to healthy longevity in. <i>ELife</i> , 2018 , 7,	8.9	58
51	SWATHtoMRM: Development of High-Coverage Targeted Metabolomics Method Using SWATH Technology for Biomarker Discovery. <i>Analytical Chemistry</i> , 2018 , 90, 4062-4070	7.8	57
50	Serum metabolomics for early diagnosis of esophageal squamous cell carcinoma by UHPLC-QTOF/MS. <i>Metabolomics</i> , 2016 , 12, 1	4.7	56
49	Advancing untargeted metabolomics using data-independent acquisition mass spectrometry technology. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 4349-4357	4.4	53
48	Laser desorption/ionization mass spectrometry analysis of monolayer-protected gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 1025-35	4.4	53
47	Engineered nanoparticle surfaces for improved mass spectrometric analyses. <i>Analyst, The</i> , 2009 , 134, 2183-8	5	50
46	MetCCS predictor: a web server for predicting collision cross-section values of metabolites in ion mobility-mass spectrometry based metabolomics. <i>Bioinformatics</i> , 2017 , 33, 2235-2237	7.2	48
45	Arteriovenous Blood Metabolomics: A Readout of Intra-Tissue Metabostasis. <i>Scientific Reports</i> , 2015 , 5, 12757	4.9	47
44	Advancing the large-scale CCS database for metabolomics and lipidomics at the machine-learning era. <i>Current Opinion in Chemical Biology</i> , 2018 , 42, 34-41	9.7	46
43	Comprehensive metabolomics identified lipid peroxidation as a prominent feature in human plasma of patients with coronary heart diseases. <i>Redox Biology</i> , 2017 , 12, 899-907	11.3	42

42	A vitamin-C-derived DNA modification catalysed by an algal TET homologue. <i>Nature</i> , 2019 , 569, 581-585	50.4	41
41	Comprehensive bioimaging with fluorinated nanoparticles using breathable liquids. <i>Nature Communications</i> , 2015 , 6, 5998	17.4	39
40	Absolute quantitative lipidomics reveals lipidome-wide alterations in aging brain. <i>Metabolomics</i> , 2017 , 14, 5	4.7	38
39	LipidIMMS Analyzer: integrating multi-dimensional information to support lipid identification in ion mobility-mass spectrometry based lipidomics. <i>Bioinformatics</i> , 2019 , 35, 698-700	7.2	35
38	Determination of the intracellular stability of gold nanoparticle monolayers using mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 4321-6	7.8	35
37	CLOCK Acetylates ASS1 to Drive Circadian Rhythm of Ureagenesis. <i>Molecular Cell</i> , 2017 , 68, 198-209.e6	17.6	33
36	The emerging role of ion mobility-mass spectrometry in lipidomics to facilitate lipid separation and identification. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 116, 332-339	14.6	31
35	Daily Oscillation of the Excitation-Inhibition Balance in Visual Cortical Circuits. <i>Neuron</i> , 2020 , 105, 621-629.e4	19.4	30
34	Regulating exocytosis of nanoparticles via host-guest chemistry. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 2474-2479	3.9	27
33	Predicting the pathological response to neoadjuvant chemoradiation using untargeted metabolomics in locally advanced rectal cancer. <i>Radiotherapy and Oncology</i> , 2018 , 128, 548-556	5.3	22
32	WaveICA: A novel algorithm to remove batch effects for large-scale untargeted metabolomics data based on wavelet analysis. <i>Analytica Chimica Acta</i> , 2019 , 1061, 60-69	6.6	21
31	DecoMetDIA: Deconvolution of Multiplexed MS/MS Spectra for Metabolite Identification in SWATH-MS-Based Untargeted Metabolomics. <i>Analytical Chemistry</i> , 2019 , 91, 11897-11904	7.8	21
30	Characterization of surface ligands on functionalized magnetic nanoparticles using laser desorption/ionization mass spectrometry (LDI-MS). <i>Nanoscale</i> , 2013 , 5, 5063-6	7.7	21
29	Drug Delivery Using Nanoparticle-Stabilized Nanocapsules. <i>Angewandte Chemie</i> , 2011 , 123, 497-501	3.6	17
28	Development of a Correlative Strategy To Discover Colorectal Tumor Tissue Derived Metabolite Biomarkers in Plasma Using Untargeted Metabolomics. <i>Analytical Chemistry</i> , 2019 , 91, 2401-2408	7.8	17
27	MetFlow: an interactive and integrated workflow for metabolomics data cleaning and differential metabolite discovery. <i>Bioinformatics</i> , 2019 , 35, 2870-2872	7.2	16
26	The Application of Ion Mobility-Mass Spectrometry in Untargeted Metabolomics: from Separation to Identification. <i>Journal of Analysis and Testing</i> , 2020 , 4, 163-174	3.2	15
25	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> , 2020 , 1136, 115-124	6.6	14

24	NormAE: Deep Adversarial Learning Model to Remove Batch Effects in Liquid Chromatography Mass Spectrometry-Based Metabolomics Data. <i>Analytical Chemistry</i> , 2020 , 92, 5082-5090	7.8	11
23	Different regions of synaptic vesicle membrane regulate VAMP2 conformation for the SNARE assembly. <i>Nature Communications</i> , 2020 , 11, 1531	17.4	10
22	A High-Throughput Targeted Metabolomics Workflow for the Detection of 200 Polar Metabolites in Central Carbon Metabolism. <i>Methods in Molecular Biology</i> , 2019 , 1859, 263-274	1.4	10
21	Proteome-Wide Analysis of N-Glycosylation Stoichiometry Using SWATH Technology. <i>Journal of Proteome Research</i> , 2017 , 16, 3830-3840	5.6	9
20	Metabolomics approach for predicting response to neoadjuvant chemotherapy for colorectal cancer. <i>Metabolomics</i> , 2018 , 14, 110	4.7	8
19	MS-DIAL 4: accelerating lipidomics using an MS/MS, CCS, and retention time atlas		8
18	Exploring the protective effects of Danqi Tongmai tablet on acute myocardial ischemia rats by comprehensive metabolomics profiling. <i>Phytomedicine</i> , 2020 , 74, 152918	6.5	7
17	Serum Metabolomics Identifies Dysregulated Pathways and Potential Metabolic Biomarkers for Hyperuricemia and Gout. <i>Arthritis and Rheumatology</i> , 2021 , 73, 1738-1748	9.5	7
16	Ion mobility-based sterolomics reveals spatially and temporally distinctive sterol lipids in the mouse brain. <i>Nature Communications</i> , 2021 , 12, 4343	17.4	6
15	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> , 2017 , 132, 157-172	6.8	5
14	Multi-dimensional characterization and identification of sterols in untargeted LC-MS analysis using all ion fragmentation technology. <i>Analytica Chimica Acta</i> , 2021 , 1142, 108-117	6.6	5
13	Subacute Toxicity Study of Nicotinamide Mononucleotide via Oral Administration. <i>Frontiers in Pharmacology</i> , 2020 , 11, 604404	5.6	4
12	NEK1-mediated retromer trafficking promotes blood-brain barrier integrity by regulating glucose metabolism and RIPK1 activation. <i>Nature Communications</i> , 2021 , 12, 4826	17.4	4
11	Overview of Tandem Mass Spectral and Metabolite Databases for Metabolite Identification in Metabolomics. <i>Methods in Molecular Biology</i> , 2020 , 2104, 139-148	1.4	2
10	Aspirin Reshapes Acetylomes in Inflammatory and Cancer Cells via CoA-Dependent and CoA-Independent Pathways. <i>Journal of Proteome Research</i> , 2020 , 19, 962-972	5.6	2
9	A serum metabolomics analysis reveals a panel of screening metabolic biomarkers for esophageal squamous cell carcinoma. <i>Clinical and Translational Medicine</i> , 2021 , 11, e419	5.7	2
8	WaveICA 2.0: a novel batch effect removal method for untargeted metabolomics data without using batch information. <i>Metabolomics</i> , 2021 , 17, 87	4.7	2
7	Stable-isotope Labeled Metabolic Analysis in : From Experimental Setup to Data Analysis. <i>Bio-protocol</i> , 2018 , 8, e3015	0.9	1

6	RIPK1 regulates starvation resistance by modulating aspartate catabolism. <i>Nature Communications</i> , 2021 , 12, 6144	17.4	1
5	Metabolic Reaction Network-based Recursive Metabolite Identification for Untargeted Metabolomics		1
4	metID: A R package for automatable compound annotation for LCMS-based data		1
3	The Use of LipidIMMS Analyzer for Lipid Identification in Ion Mobility-Mass Spectrometry-Based Untargeted Lipidomics. <i>Methods in Molecular Biology</i> , 2020 , 2084, 269-282	1.4	1
2	Trapped ion mobility spectrometry-mass spectrometry improves the coverage and accuracy of four-dimensional untargeted lipidomics. <i>Analytica Chimica Acta</i> , 2022 , 1210, 339886	6.6	0
1	Degradation of HK2 by chaperone-mediated autophagy promotes metabolic catastrophe and cell death. <i>Journal of Experimental Medicine</i> , 2015 , 212, 212100IA79	16.6	