

Haiwei Gu

List of Publications by Citations

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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.

115
papers

4,126
citations

33
h-index

61
g-index

131
ext. papers

5,194
ext. citations

6.4
avg, IF

5.42
L-index

#	Paper	IF	Citations
115	Metabolomics-based methods for early disease diagnostics. <i>Expert Review of Molecular Diagnostics</i> , 2008 , 8, 617-33	3.8	452
114	The metabolome regulates the epigenetic landscape during naive-to-primed human embryonic stem cell transition. <i>Nature Cell Biology</i> , 2015 , 17, 1523-35	23.4	249
113	Altered proteome turnover and remodeling by short-term caloric restriction or rapamycin rejuvenate the aging heart. <i>Aging Cell</i> , 2014 , 13, 529-39	9.9	194
112	Defective Branched-Chain Amino Acid Catabolism Disrupts Glucose Metabolism and Sensitizes the Heart to Ischemia-Reperfusion Injury. <i>Cell Metabolism</i> , 2017 , 25, 374-385	24.6	159
111	Colorectal cancer detection using targeted serum metabolic profiling. <i>Journal of Proteome Research</i> , 2014 , 13, 4120-30	5.6	147
110	EGFR Signaling Enhances Aerobic Glycolysis in Triple-Negative Breast Cancer Cells to Promote Tumor Growth and Immune Escape. <i>Cancer Research</i> , 2016 , 76, 1284-96	10.1	141
109	Principal component analysis of urine metabolites detected by NMR and DESI-MS in patients with inborn errors of metabolism. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 539-49	4.4	133
108	Deregulated Myc requires MondoA/Mlx for metabolic reprogramming and tumorigenesis. <i>Cancer Cell</i> , 2015 , 27, 271-85	24.3	124
107	Principal component directed partial least squares analysis for combining nuclear magnetic resonance and mass spectrometry data in metabolomics: application to the detection of breast cancer. <i>Analytica Chimica Acta</i> , 2011 , 686, 57-63	6.6	121
106	Monitoring diet effects via biofluids and their implications for metabolomics studies. <i>Analytical Chemistry</i> , 2007 , 79, 89-97	7.8	104
105	Differentiation of maturity and quality of fruit using noninvasive extractive electrospray ionization quadrupole time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 1447-55	7.8	97
104	Rapamycin transiently induces mitochondrial remodeling to reprogram energy metabolism in old hearts. <i>Aging</i> , 2016 , 8, 314-27	5.6	78
103	Globally Optimized Targeted Mass Spectrometry: Reliable Metabolomics Analysis with Broad Coverage. <i>Analytical Chemistry</i> , 2015 , 87, 12355-62	7.8	71
102	Glucose promotes cell growth by suppressing branched-chain amino acid degradation. <i>Nature Communications</i> , 2018 , 9, 2935	17.4	68
101	¹⁵ N-cholamine--a smart isotope tag for combining NMR- and MS-based metabolite profiling. <i>Analytical Chemistry</i> , 2013 , 85, 8715-21	7.8	66
100	Fnip1 regulates skeletal muscle fiber type specification, fatigue resistance, and susceptibility to muscular dystrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 424-9	11.5	62
99	Phototransduction Influences Metabolic Flux and Nucleotide Metabolism in Mouse Retina. <i>Journal of Biological Chemistry</i> , 2016 , 291, 4698-710	5.4	58

98	1H NMR metabolomics study of age profiling in children. <i>NMR in Biomedicine</i> , 2009 , 22, 826-33	4.4	56
97	Peak capacity optimization in comprehensive two dimensional liquid chromatography: a practical approach. <i>Journal of Chromatography A</i> , 2011 , 1218, 64-73	4.5	50
96	Human retinal pigment epithelial cells prefer proline as a nutrient and transport metabolic intermediates to the retinal side. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12895-12905	5.4	48
95	Transcriptomic, proteomic, and metabolomic landscape of positional memory in the caudal fin of zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E717-E726	11.5	47
94	Targeted serum metabolite profiling and sequential metabolite ratio analysis for colorectal cancer progression monitoring. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7857-63	4.4	47
93	Identification of novel candidate plasma metabolite biomarkers for distinguishing serous ovarian carcinoma and benign serous ovarian tumors. <i>Gynecologic Oncology</i> , 2016 , 140, 138-44	4.9	47
92	Breast cancer detection using targeted plasma metabolomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019 , 1105, 26-37	3.2	45
91	Salivary metabolite profiling distinguishes patients with oral cavity squamous cell carcinoma from normal controls. <i>PLoS ONE</i> , 2018 , 13, e0204249	3.7	45
90	PBDEs Altered Gut Microbiome and Bile Acid Homeostasis in Male C57BL/6 Mice. <i>Drug Metabolism and Disposition</i> , 2018 , 46, 1226-1240	4	45
89	Selective detection of diethylene glycol in toothpaste products using neutral desorption reactive extractive electrospray ionization tandem mass spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 8632-8	7.8	44
88	An experimental study of sampling time effects on the resolving power of on-line two-dimensional high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2011 , 1218, 2984-94	4.5	41
87	Combining NMR and LC/MS Using Backward Variable Elimination: Metabolomics Analysis of Colorectal Cancer, Polyps, and Healthy Controls. <i>Analytical Chemistry</i> , 2016 , 88, 7975-83	7.8	39
86	Targeted plasma metabolome response to variations in dietary glycemic load in a randomized, controlled, crossover feeding trial in healthy adults. <i>Food and Function</i> , 2015 , 6, 2949-56	6.1	36
85	Transcriptome and DNA Methylome Analysis in a Mouse Model of Diet-Induced Obesity Predicts Increased Risk of Colorectal Cancer. <i>Cell Reports</i> , 2018 , 22, 624-637	10.6	34
84	Integrated plasma and urine metabolomics coupled with HPLC/QTOF-MS and chemometric analysis on potential biomarkers in liver injury and hepatoprotective effects of Er-Zhi-Wan. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 7367-78	4.4	34
83	Quantitative Method to Investigate the Balance between Metabolism and Proteome Biomass: Starting from Glycine. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15646-15650	16.4	33
82	ApoE4 Impairs Neuron-Astrocyte Coupling of Fatty Acid Metabolism. <i>Cell Reports</i> , 2021 , 34, 108572	10.6	33
81	Targeted metabolic profiling of hepatocellular carcinoma and hepatitis C using LC-MS/MS. <i>Electrophoresis</i> , 2013 , 34, 2910-7	3.6	32

80	NMR-Guided Mass Spectrometry for Absolute Quantitation of Human Blood Metabolites. <i>Analytical Chemistry</i> , 2018 , 90, 2001-2009	7.8	31
79	Metabolomics method to comprehensively analyze amino acids in different domains. <i>Analyst, The</i> , 2015 , 140, 2726-34	5	31
78	Rapid analysis of aerosol drugs using nano extractive electrospray ionization tandem mass spectrometry. <i>Analyst, The</i> , 2010 , 135, 1259-67	5	31
77	Geometry-independent neutral desorption device for the sensitive EESI-MS detection of explosives on various surfaces. <i>Analyst, The</i> , 2010 , 135, 779-88	5	30
76	Database-Assisted Globally Optimized Targeted Mass Spectrometry (dGOT-MS): Broad and Reliable Metabolomics Analysis with Enhanced Identification. <i>Analytical Chemistry</i> , 2019 , 91, 13737-13745	7.8	29
75	Circulating bile acids in healthy adults respond differently to a dietary pattern characterized by whole grains, legumes and fruits and vegetables compared to a diet high in refined grains and added sugars: A randomized, controlled, crossover feeding study. <i>Metabolism: Clinical and Experimental</i> , 2018 , 83, 197-204	12.7	29
74	Desorption Electrospray Ionization Tandem Mass Spectrometry for Detection of 24 Carcinogenic Aromatic Amines in Textiles. <i>Analytical Chemistry</i> , 2009 , 81, 6070-6079	7.8	29
73	Use of Metabolomics to Trend Recovery and Therapy After Injury in Critically Ill Trauma Patients. <i>JAMA Surgery</i> , 2016 , 151, e160853	5.4	29
72	Direct analysis of biological samples using extractive electrospray ionization mass spectrometry (EESI-MS). <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 2145-53	4.4	28
71	Rapamycin persistently improves cardiac function in aged, male and female mice, even following cessation of treatment. <i>Aging Cell</i> , 2020 , 19, e13086	9.9	28
70	Metabolic profiling identifies phospholipids as potential serum biomarkers for schizophrenia. <i>Psychiatry Research</i> , 2019 , 272, 18-29	9.9	27
69	Targeting the pregnane X receptor using microbial metabolite mimicry. <i>EMBO Molecular Medicine</i> , 2020 , 12, e11621	12	26
68	Antibiotic-induced gut metabolome and microbiome alterations increase the susceptibility to <i>Candida albicans</i> colonization in the gastrointestinal tract. <i>FEMS Microbiology Ecology</i> , 2020 , 96,	4.3	26
67	RAMSY: ratio analysis of mass spectrometry to improve compound identification. <i>Analytical Chemistry</i> , 2013 , 85, 10771-9	7.8	25
66	Pharmacological Activation of PXR and CAR Downregulates Distinct Bile Acid-Metabolizing Intestinal Bacteria and Alters Bile Acid Homeostasis. <i>Toxicological Sciences</i> , 2019 , 168, 40-60	4.4	25
65	Serum Tryptophan Metabolite Levels During Sleep in Patients With and Without Irritable Bowel Syndrome (IBS). <i>Biological Research for Nursing</i> , 2016 , 18, 193-8	2.6	24
64	Exploring Metabolic Profile Differences between Colorectal Polyp Patients and Controls Using Seemingly Unrelated Regression. <i>Journal of Proteome Research</i> , 2015 , 14, 2492-9	5.6	24
63	Mass Spectral Similarity Networking and Gas-Phase Fragmentation Reactions in the Structural Analysis of Flavonoid Glycoconjugates. <i>Analytical Chemistry</i> , 2019 , 91, 10413-10423	7.8	22

62	Candidate serum metabolite biomarkers for differentiating gastroesophageal reflux disease, Barrett's esophagus, and high-grade dysplasia/esophageal adenocarcinoma. <i>Metabolomics</i> , 2017 , 13, 1	4.7	20
61	Polybrominated Diphenyl Ethers and Gut Microbiome Modulate Metabolic Syndrome-Related Aqueous Metabolites in Mice. <i>Drug Metabolism and Disposition</i> , 2019 , 47, 928-940	4	20
60	Triple Negative Breast Cancer Detection Using LC-MS/MS Lipidomic Profiling. <i>Journal of Proteome Research</i> , 2020 , 19, 2367-2378	5.6	19
59	Effect of first dimension phase selectivity in online comprehensive two dimensional liquid chromatography (LC ²). <i>Journal of Chromatography A</i> , 2011 , 1218, 6675-87	4.5	19
58	Plasma metabolomics profiles suggest beneficial effects of a low-glycemic load dietary pattern on inflammation and energy metabolism. <i>American Journal of Clinical Nutrition</i> , 2019 , 110, 984-992	7	18
57	A Metabolomics Study of BPTES Altered Metabolism in Human Breast Cancer Cell Lines. <i>Frontiers in Molecular Biosciences</i> , 2018 , 5, 49	5.6	17
56	Pan-cancer transcriptional signatures predictive of oncogenic mutations reveal that Fbw7 regulates cancer cell oxidative metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5462-5467	11.5	17
55	Coccidioidomycosis Detection Using Targeted Plasma and Urine Metabolic Profiling. <i>Journal of Proteome Research</i> , 2019 , 18, 2791-2802	5.6	16
54	Loss of SETD2 Induces a Metabolic Switch in Renal Cell Carcinoma Cell Lines toward Enhanced Oxidative Phosphorylation. <i>Journal of Proteome Research</i> , 2019 , 18, 331-340	5.6	16
53	Parenteral and enteral nutrition in surgical critical care: Plasma metabolomics demonstrates divergent effects on nitrogen, fatty-acid, ribonucleotide, and oxidative metabolism. <i>Journal of Trauma and Acute Care Surgery</i> , 2017 , 82, 704-713	3.3	15
52	2,2',4,4'-tetrabromodiphenyl ether (BDE-47) induces wide metabolic changes including attenuated mitochondrial function and enhanced glycolysis in PC12 cells. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 201, 110849	7	14
51	Multiplatform Metabolomics Investigation of Antiadipogenic Effects on 3T3-L1 Adipocytes by a Potent Diarylheptanoid. <i>Journal of Proteome Research</i> , 2018 , 17, 2092-2101	5.6	14
50	Targeted metabolic profiling of wounds in diabetic and nondiabetic mice. <i>Wound Repair and Regeneration</i> , 2015 , 23, 423-34	3.6	14
49	Influence of Storage Conditions and Preservatives on Metabolite Fingerprints in Urine. <i>Metabolites</i> , 2019 , 9,	5.6	14
48	Daily red wine vinegar ingestion for eight weeks improves glucose homeostasis and affects the metabolome but does not reduce adiposity in adults. <i>Food and Function</i> , 2019 , 10, 7343-7355	6.1	14
47	Alterations of eicosanoids and related mediators in patients with schizophrenia. <i>Journal of Psychiatric Research</i> , 2018 , 102, 168-178	5.2	13
46	Altered metabolite levels and correlations in patients with colorectal cancer and polyps detected using seemingly unrelated regression analysis. <i>Metabolomics</i> , 2017 , 13, 1	4.7	13
45	Plasma metabolite abundances are associated with urinary enterolactone excretion in healthy participants on controlled diets. <i>Food and Function</i> , 2017 , 8, 3209-3218	6.1	13

44	Identification of an intrinsic lysophosphatidic acid acyltransferase activity in the lipolytic inhibitor G/G switch gene 2 (G0S2). <i>FASEB Journal</i> , 2019 , 33, 6655-6666	0.9	12
43	Early Life Exposure to Environmental Contaminants (BDE-47, TBBPA, and BPS) Produced Persistent Alterations in Fecal Microbiome in Adult Male Mice. <i>Toxicological Sciences</i> , 2021 , 179, 14-30	4.4	12
42	Gut Microbiome Critically Impacts PCB-induced Changes in Metabolic Fingerprints and the Hepatic Transcriptome in Mice. <i>Toxicological Sciences</i> , 2020 , 177, 168-187	4.4	12
41	Detection of trace levels of lead in aqueous liquids using extractive electrospray ionization tandem mass spectrometry. <i>Talanta</i> , 2012 , 98, 79-85	6.2	12
40	Direct detection of native proteins in biological matrices using extractive electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2011 , 136, 3599-601	5	12
39	Comprehensive Isotopic Targeted Mass Spectrometry: Reliable Metabolic Flux Analysis with Broad Coverage. <i>Analytical Chemistry</i> , 2020 , 92, 11728-11738	7.8	12
38	Dereplication of Natural Products Using GC-TOF Mass Spectrometry: Improved Metabolite Identification by Spectral Deconvolution Ratio Analysis. <i>Frontiers in Molecular Biosciences</i> , 2016 , 3, 59	5.6	12
37	Biodiversity and dynamics of cyanobacterial communities during blooms in temperate lake (Harsha Lake, Ohio, USA). <i>Harmful Algae</i> , 2019 , 82, 9-18	5.3	12
36	Chronic kidney disease attenuates the plasma metabolome response to insulin. <i>JCI Insight</i> , 2018 , 3,	9.9	11
35	Early Breast Cancer Detection Using Untargeted and Targeted Metabolomics. <i>Journal of Proteome Research</i> , 2021 , 20, 3124-3133	5.6	11
34	Loss of Fnip1 alters kidney developmental transcriptional program and synergizes with TSC1 loss to promote mTORC1 activation and renal cyst formation. <i>PLoS ONE</i> , 2018 , 13, e0197973	3.7	11
33	Combining NMR and MS with Chemical Derivatization for Absolute Quantification with Reduced Matrix Effects. <i>Analytical Chemistry</i> , 2019 , 91, 4055-4062	7.8	10
32	NAD Redox Imbalance in the Heart Exacerbates Diabetic Cardiomyopathy. <i>Circulation: Heart Failure</i> , 2021 , 14, e008170	7.6	10
31	Metabolite releasing polymers control dendritic cell function by modulating their energy metabolism. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 5195-5203	7.3	9
30	Metabolic Profiling of Neocortical Tissue Discriminates Alzheimer's Disease from Mild Cognitive Impairment, High Pathology Controls, and Normal Controls. <i>Journal of Proteome Research</i> , 2021 , 20, 4303-4317	5.6	8
29	Identification of major malate export systems in an engineered malate-producing <i>Escherichia coli</i> aided by substrate similarity search. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 9001-9011	5.7	7
28	Tryptophan Metabolites in Irritable Bowel Syndrome: An Overnight Time-course Study. <i>Journal of Neurogastroenterology and Motility</i> , 2019 , 25, 551-562	4.4	6
27	Evaluation of potential metabolomic-based biomarkers of protein, carbohydrate and fat intakes using a controlled feeding study. <i>European Journal of Nutrition</i> , 2021 , 60, 4207-4218	5.2	5

26	Enhanced Detection of Short-Chain Fatty Acids Using Gas Chromatography Mass Spectrometry. <i>Current Protocols</i> , 2021 , 1, e177		5
25	Inhibition of glycolysis in the presence of antigen generates suppressive antigen-specific responses and restrains rheumatoid arthritis in mice. <i>Biomaterials</i> , 2021 , 277, 121079	15.6	5
24	1H NMR study of the effects of sample contamination in the metabolomic analysis of mouse urine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 45, 134-140	3.5	4
23	Hypoxia promotes erythroid differentiation through the development of progenitors and proerythroblasts. <i>Experimental Hematology</i> , 2021 , 97, 32-46.e35	3.1	4
22	Inositol serves as a natural inhibitor of mitochondrial fission by directly targeting AMPK. <i>Molecular Cell</i> , 2021 , 81, 3803-3819.e7	17.6	4
21	Identifying Significant Metabolic Pathways Using Multi-Block Partial Least-Squares Analysis. <i>Journal of Proteome Research</i> , 2020 , 19, 1965-1974	5.6	3
20	A four-week high fat diet does not alter plasma glucose or metabolic physiology in wild-caught mourning doves (<i>Zenaidura macroura</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021 , 251, 110820	2.6	3
19	Neonatal Exposure to BPA, BDE-99, and PCB Produces Persistent Changes in Hepatic Transcriptome Associated With Gut Dysbiosis in Adult Mouse Livers. <i>Toxicological Sciences</i> , 2021 , 184, 83-103	4.4	3
18	A four-week white bread diet does not alter plasma glucose concentrations, metabolic or vascular physiology in mourning doves, <i>Zenaidura macroura</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020 , 247, 110718	2.6	2
17	Sensitive ionization of non-volatile analytes using protein solutions as spray liquid in desorption electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 2770-6	2.2	2
16	Metabolic Profile in Neonatal Pig Hearts. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 763984	5.4	2
15	Understanding the physiological functions of the host xenobiotic-sensing nuclear receptors PXR and CAR on the gut microbiome using genetically modified mice.. <i>Acta Pharmaceutica Sinica B</i> , 2022 , 12, 801-820	15.5	2
14	Adsorption and Reductive Defluorination of Perfluorooctanoic Acid over Palladium Nanoparticles. <i>Environmental Science & Technology</i> , 2021 , 55, 14836-14843	10.3	2
13	Aging influence on pulmonary and systemic inflammation and neural metabolomics arising from pulmonary multi-walled carbon nanotube exposure in apolipoprotein E-deficient and C57BL/6 female mice.. <i>Inhalation Toxicology</i> , 2022 , 1-15	2.7	1
12	Daily Vinegar Ingestion Improves Depression Scores and Alters the Metabolome in Healthy Adults: A Randomized Controlled Trial. <i>Nutrients</i> , 2021 , 13,	6.7	1
11	Metabolomics of oxidative stress: Nrf2 independent depletion of NAD or increases of sugar alcohols.. <i>Toxicology and Applied Pharmacology</i> , 2022 , 115949	4.6	1
10	Metabolomics Analysis of Viral Therapeutics. <i>Methods in Molecular Biology</i> , 2021 , 2225, 179-197	1.4	0
9	The glucose-sensing transcription factor MLX balances metabolism and stress to suppress apoptosis and maintain spermatogenesis. <i>PLoS Biology</i> , 2021 , 19, e3001085	9.7	0

8	Microbiome and metabolome profiles of high screen time in a cohort of healthy college students.. <i>Scientific Reports</i> , 2022 , 12, 3452	4.9	o
7	Central Nervous System Metabolism in Autism, Epilepsy and Developmental Delays: A Cerebrospinal Fluid Analysis. <i>Metabolites</i> , 2022 , 12, 371	5.6	o
6	NMR-Based Metabolomics Technology in Biomarker Research1		
5	CRISPR-Mediated Loss of Immunoglobulin Heavy Chain in Multiple Myeloma Cell Line Results in Metabolic Pathway Alterations. <i>Blood</i> , 2018 , 132, 1885-1885	2.2	
4	Neonatal Oral Exposure to Environmental Chemicals Produces Persistent Dysbiosis Corresponding to Hepatic Epigenetic Reprogramming in Adult Mice. <i>FASEB Journal</i> , 2019 , 33, lb23	0.9	
3	Coccidioidomycosis Detection Using Targeted Plasma and Urine Metabolic Profiling. <i>FASEB Journal</i> , 2019 , 33, lb252	0.9	
2	Ovarian Cancer Detection Using Plasma Metabolic Profiling. <i>FASEB Journal</i> , 2019 , 33, lb239	0.9	
1	Quantitative Method to Investigate the Balance between Metabolism and Proteome Biomass: Starting from Glycine. <i>Angewandte Chemie</i> , 2016 , 128, 15875-15879	3.6	