Hong Zheng

List of Publications by Year
in descending order

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Version: 2024-02-01

79	1,976	218381	315357
papers	citations	26 h-index	38 g-index

84	84	84	2989
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimized integration of metabolomics and lipidomics reveals brain region-specific changes of oxidative stress and neuroinflammation in type 1 diabetic mice with cognitive decline. Journal of Advanced Research, 2023, 43, 233-245.	4.4	14
2	Inhibition of protein kinase C alpha attenuates lipopolysaccharide-triggered acute lung injury by alleviating the hyperinflammatory response and oxidative stress. Annals of Translational Medicine, 2022, 10, 132-132.	0.7	1
3	The Psychosocial Impact of Dental Esthetics in Undergraduates with Borderline Malocclusion. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-6.	0.7	3
4	Targeting Gut Microbiota and Host Metabolism with Dendrobium officinale Dietary Fiber to Prevent Obesity and Improve Glucose Homeostasis in Dietâ€induced Obese Mice. Molecular Nutrition and Food Research, 2022, 66, e2100772.	1.5	18
5	Urinary and faecal metabolic characteristics in APP/PS1 transgenic mouse model of Alzheimer's disease with and without cognitive decline. Biochemical and Biophysical Research Communications, 2022, 604, 130-136.	1.0	3
6	Identification of characteristic metabolic panels for different stages of prostate cancer by 1H NMR-based metabolomics analysis. Journal of Translational Medicine, 2022, 20, .	1.8	9
7	Effects of Fibroblast Growth Factor 21 on Lactate Uptake and Usage in Mice with Diabetes-Associated Cognitive Decline. Molecular Neurobiology, 2022, 59, 5656-5672.	1.9	4
8	Predictive diagnosis of chronic obstructive pulmonary disease using serum metabolic biomarkers and leastâ€squares support vector machine. Journal of Clinical Laboratory Analysis, 2021, 35, e23641.	0.9	21
9	Region-specific metabolic characterization of the type 1 diabetic brain in mice with and without cognitive impairment. Neurochemistry International, 2021, 143, 104941.	1.9	7
10	Metabolomics reveals sex-specific metabolic shifts and predicts the duration from positive to negative in non-severe COVID-19 patients during recovery process. Computational and Structural Biotechnology Journal, 2021, 19, 1863-1873.	1.9	18
11	Depletion of acetate-producing bacteria from the gut microbiota facilitates cognitive impairment through the gut-brain neural mechanism in diabetic mice. Microbiome, 2021, 9, 145.	4.9	56
12	Integration of FGF21 Signaling and Metabolomics in High-Fat Diet-Induced Obesity. Journal of Proteome Research, 2021, 20, 3900-3912.	1.8	6
13	Sex-dependent effects on the gut microbiota and host metabolome in type 1 diabetic mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166266.	1.8	7
14	The Protective Effect of Basic Fibroblast Growth Factor in Intestine of db/db Mice: A 1H NMR-Based Metabolomics Investigation. Journal of Proteome Research, 2021, 20, 5024-5035.	1.8	1
15	NMR-based metabolomics analysis identifies discriminatory metabolic disturbances in tissue and biofluid samples for progressive prostate cancer. Clinica Chimica Acta, 2020, 501, 241-251.	0.5	27
16	Sex-specific metabolic alterations in the type 1 diabetic brain of mice revealed by an integrated method of metabolomics and mixed-model. Computational and Structural Biotechnology Journal, 2020, 18, 2063-2074.	1.9	12
17	Distinct Metabolic Signatures of Hormone-Sensitive and Castration-Resistant Prostate Cancer Revealed by a ¹H NMR-Based Metabolomics of Biopsy Tissue. Journal of Proteome Research, 2020, 19, 3741-3749.	1.8	7
18	S100A2 promotes glycolysis and proliferation via GLUT1 regulation in colorectal cancer. FASEB Journal, 2020, 34, 13333-13344.	0.2	28

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19	Nondestructive determination of soluble solids content and pH in red bayberry (Myrica rubra) based on color space. Journal of Food Science and Technology, 2020, 57, 4541-4550.	1.4	9
20	Sex-Specific Metabolic Changes in Peripheral Organs of Diabetic Mice. Journal of Proteome Research, 2020, 19, 3011-3021.	1.8	4
21	The Protective Effect of Basic Fibroblast Growth Factor on Diabetic Nephropathy Through Remodeling Metabolic Phenotype and Suppressing Oxidative Stress in Mice. Frontiers in Pharmacology, 2020, 11, 66.	1.6	15
22	Brain-Region Specific Metabolic Abnormalities in Parkinsonâ€™s Disease and Levodopa-Induced Dyskinesia. Frontiers in Aging Neuroscience, 2020, 12, 75.	1.7	18
23	Rapid identification and quantification of adulteration in Dendrobium officinale using nuclear magnetic resonance spectroscopy combined with least-squares support vector machine. Journal of Food Measurement and Characterization, 2020, 14, 1427-1432.	1.6	2
24	NMR-based metabolomics characterizes metabolic changes in different brain regions of streptozotocin-induced diabetic mice with cognitive decline. Metabolic Brain Disease, 2020, 35, 1165-1173.	1.4	15
25	Type 1 diabetes induces cognitive dysfunction in rats associated with alterations of the gut microbiome and metabolomes in serum and hippocampus. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 165541.	1.8	85
26	Antibiotic Exposure Disturbs the Gut Microbiota and Its Metabolic Phenotype Differently in Rats with Advanced-Stage Type 1 Diabetes and Age-Matched Controls. Journal of Proteome Research, 2019, 18, 3944-3954.	1.8	2
27	Identification of the Potential Metabolic Pathways Involved in the Hepatic Tumorigenesis of Rat Diethylnitrosamine-Induced Hepatocellular Carcinoma via ¹H NMR-Based Metabolomic Analysis. BioMed Research International, 2019, 2019, 1-11.	0.9	8
28	Metabolic remodeling of cardiomyocytes identified in phosphoinositide-dependent kinase 1-deficient mice. Biochemical Journal, 2019, 476, 1943-1954.	1.7	3
29	Antibiotic Exposure Has Sex-Dependent Effects on the Gut Microbiota and Metabolism of Short-Chain Fatty Acids and Amino Acids in Mice. MSystems, 2019, 4, .	1.7	42
30	Maresin1 Alleviates Metabolic Dysfunction in Septic Mice: A ¹H NMR-Based Metabolomics Analysis. Mediators of Inflammation, 2019, 2019, 1-11.	1.4	20
31	Changes in hepatic metabolic profile during the evolution of STZ-induced diabetic rats via an 1H NMR-based metabonomic investigation. Bioscience Reports, 2019, 39, .	1.1	15
32	Tissue-Specific Metabolomics Analysis Identifies the Liver as a Major Organ of Metabolic Disorders in Amyloid Precursor Protein/Presenilin 1 Mice of Alzheimerâ€™s Disease. Journal of Proteome Research, 2019, 18, 1218-1227.	1.8	20
33	Metabolic alterations in the rat cerebellum following acute middle cerebral artery occlusion, as determined by 1H NMR spectroscopy. Molecular Medicine Reports, 2018, 17, 531-541.	1.1	10
34	Time-Dependent Lactate Production and Amino Acid Utilization in Cultured Astrocytes Under High Glucose Exposure. Molecular Neurobiology, 2018, 55, 1112-1122.	1.9	13
35	The hypothalamus as the primary brain region of metabolic abnormalities in APP/PS1 transgenic mouse model of Alzheimer's disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 263-273.	1.8	46
36	Balancing metabolome coverage and reproducibility for untargeted NMR-based metabolic profiling in tissue samples through mixture design methods. Analytical and Bioanalytical Chemistry, 2018, 410, 7783-7792.	1.9	12

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37	Metabolomic Analysis Identifies Lactate as an Important Pathogenic Factor in Diabetes-associated Cognitive Decline Rats. Molecular and Cellular Proteomics, 2018, 17, 2335-2346.	2.5	29
38	Metabolic fate of glucose in the brain of APP/PS1 transgenic mice at 10Âmonths of age: a 13C NMR metabolomic study. Metabolic Brain Disease, 2018, 33, 1661-1668.	1.4	19
39	Identification of Energy Metabolism Changes in Diabetic Cardiomyopathy Rats Using a Metabonomic Approach. Cellular Physiology and Biochemistry, 2018, 48, 934-946.	1.1	11
40	Characteristic Metabolic Alterations Identified in Primary Neurons Under High Glucose Exposure. Frontiers in Cellular Neuroscience, 2018, 12, 207.	1.8	18
41	High Glucose-Induced Cardiomyocyte Death May Be Linked to Unbalanced Branched-Chain Amino Acids and Energy Metabolism. Molecules, 2018, 23, 807.	1.7	26
42	Analysis of neuronâ€“astrocyte metabolic cooperation in the brain of db/db mice with cognitive decline using ¹³C NMR spectroscopy. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 332-343.	2.4	33
43	NMR-based metabolomics reveals brain region-specific metabolic alterations in streptozotocin-induced diabetic rats with cognitive dysfunction. Metabolic Brain Disease, 2017, 32, 585-593.	1.4	36
44	Predictive diagnosis of major depression using NMR-based metabolomics and least-squares support vector machine. Clinica Chimica Acta, 2017, 464, 223-227.	0.5	49
45	Consumption of Whey in Combination with Dairy Mediumâ€Chain Fatty Acids (MCFAs) may Reduce Lipid Storage due to Urinary Loss of Tricarboxylic Acid Cycle Intermediates and Increased Rates of MCFAs Oxidation. Molecular Nutrition and Food Research, 2017, 61, 1601048.	1.5	13
46	Optimal preprocessing of serum and urine metabolomic data fusion for staging prostate cancer through design of experiment. Analytica Chimica Acta, 2017, 991, 68-75.	2.6	24
47	Metabolic characterization of hepatitis B virus-related liver cirrhosis using NMR-based serum metabolomics. Metabolomics, 2017, 13, 1.	1.4	10
48	Cognitive decline in type 2 diabetic db/db mice may be associated with brain region-specific metabolic disorders. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 266-273.	1.8	59
49	An NMR-Based Metabolomic Approach to Unravel the Preventive Effect of Water-Soluble Extract from Dendrobium officinale Kimura & Migo on Streptozotocin-Induced Diabetes in Mice. Molecules, 2017, 22, 1543.	1.7	19
50	Early Effect of AmyloidÎ²-Peptide on Hippocampal and Serum Metabolism in Rats Studied by an Integrated Method of NMR-Based Metabolomics and ANOVA-Simultaneous Component Analysis. BioMed Research International, 2017, 2017, 1-9.	0.9	15
51	High Glucose-Induced PC12 Cell Death by Increasing Glutamate Production and Decreasing Methyl Group Metabolism. BioMed Research International, 2016, 2016, 1-9.	0.9	22
52	Metabolic Effects of a 24-Week Energy-Restricted Intervention Combined with Low or High Dairy Intake in Overweight Women: An NMR-Based Metabolomics Investigation. Nutrients, 2016, 8, 108.	1.7	35
53	Metabonomic profiles delineate potential role of glutamate-glutamine cycle in db/db mice with diabetes-associated cognitive decline. Molecular Brain, 2016, 9, 40.	1.3	50
54	Chemometrics coupled with ultraviolet spectroscopy: a tool for the analysis of variety, adulteration, quality and ageing of apple juices. International Journal of Food Science and Technology, 2016, 51, 2474-2484.	1.3	18

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55	Identification of key metabolic changes in renal interstitial fibrosis rats using metabonomics and pharmacology. Scientific Reports, 2016, 6, 27194.	1.6	34
56	Metabolic effects of basic fibroblast growth factor in streptozotocin-induced diabetic rats: A 1H NMR-based metabolomics investigation. Scientific Reports, 2016, 6, 36474.	1.6	22
57	NMR-Based Metabolomics Reveal a Recovery from Metabolic Changes in the Striatum of 6-OHDA-Induced Rats Treated with Basic Fibroblast Growth Factor. Molecular Neurobiology, 2016, 53, 6690-6697.	1.9	23
58	Prediction of relationship between surface area, temperature, storage time and ascorbic acid retention of fresh-cut pineapple using adaptive neuro-fuzzy inference system (ANFIS). Postharvest Biology and Technology, 2016, 113, 1-7.	2.9	21
59	Prediction and diagnosis of renal cell carcinoma using nuclear magnetic resonance-based serum metabolomics and self-organizing maps. Oncotarget, 2016, 7, 59189-59198.	0.8	58
60	Metabolomics to Explore Impact of Dairy Intake. Nutrients, 2015, 7, 4875-4896.	1.7	30
61	Metabolomics Investigation To Shed Light on Cheese as a Possible Piece in the French Paradox Puzzle. Journal of Agricultural and Food Chemistry, 2015, 63, 2830-2839.	2.4	84
62	Nuclear magnetic resonance-based metabolomics reveals that dairy protein fractions affect urinary urea excretion differently in overweight adolescents. European Food Research and Technology, 2015, 240, 489-497.	1.6	8
63	Application of UV spectrometry and chemometric models for detecting olive oil-vegetable oil blends adulteration. Journal of Food Science and Technology, 2015, 52, 479-485.	1.4	28
64	NMR-Based Metabolomic Profiling of Overweight Adolescents: An Elucidation of the Effects of Inter-/Intraindividual Differences, Gender, and Pubertal Development. BioMed Research International, 2014, 2014, 1-10.	0.9	28
65	Use of Linear and Weibull Functions to Model Ascorbic Acid Degradation in Chinese Winter Jujube during Postharvest Storage in Light and Dark Conditions. Journal of Food Processing and Preservation, 2014, 38, 856-863.	0.9	11
66	Time-Saving Design of Experiment Protocol for Optimization of LC-MS Data Processing in Metabolomic Approaches. Analytical Chemistry, 2013, 85, 7109-7116.	3.2	42
67	Enhancing the Power of Liquid Chromatographyâ€“Mass Spectrometry-Based Urine Metabolomics in Negative Ion Mode by Optimization of the Additive. Analytical Chemistry, 2012, 84, 7785-7792.	3.2	41
68	Nondestructive Evaluation of Quality Changes and the Optimum Time for Harvesting During Jujube (Zizyphus jujuba Mill. cv. Changhong) Fruits Development. Food and Bioprocess Technology, 2012, 5, 2586-2595.	2.6	32
69	Fractal colour: A new approach for evaluation of acrylamide contents in biscuits. Food Chemistry, 2012, 134, 2521-2525.	4.2	12
70	A least-squares support vector machine (LS-SVM) based on fractal analysis and CIELab parameters for the detection of browning degree on mango (Mangifera indica L.). Computers and Electronics in Agriculture, 2012, 83, 47-51.	3.7	65
71	Application of Artificial Neural Network (ANN) and Partial Least-Squares Regression (PLSR) to Predict the Changes of Anthocyanins, Ascorbic Acid, Total Phenols, Flavonoids, and Antioxidant Activity during Storage of Red Bayberry Juice Based on Fractal Analysis and Red, Green, and Blue (RGB) Intensity Values. Journal of Agricultural and Food Chemistry, 2011, 59, 592-600.	2.4	50
72	Use of kinetic, Weibull and PLSR models to predict the retention of ascorbic acid, total phenols and antioxidant activity during storage of pasteurized pineapple juice. LWT - Food Science and Technology, 2011, 44, 1273-1281.	2.5	67

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73	Neural network prediction of ascorbic acid degradation in green asparagus during thermal treatments. Expert Systems With Applications, 2011, 38, 5591-5602.	4.4	25
74	Effect of microwave pretreatment on the kinetics of ascorbic acid degradation and peroxidase inactivation in different parts of green asparagus (Asparagus officinalis L.) during water blanching. Food Chemistry, 2011, 128, 1087-1093.	4.2	70
75	Bruise detection on red bayberry (Myrica rubra Sieb. & Zucc.) using fractal analysis and support vector machine. Journal of Food Engineering, 2011, 104, 149-153.	2.7	40
76	An adaptive neural-fuzzy inference system (ANFIS) for detection of bruises on Chinese bayberry (Myrica) Tj ETQq0 0 0 rgBT /Overlock 10 663-667.	2.7	43
77	Automatic sorting of Chinese jujube (Zizyphus jujuba Mill. cv. â€˜hongxingâ€™) using chlorophyll fluorescence and support vector machine. Journal of Food Engineering, 2010, 101, 402-408.	2.7	38
78	Using Neural Networks to Estimate the Losses of Ascorbic Acid, Total Phenols, Flavonoid, and Antioxidant Activity in Asparagus during Thermal Treatments. Journal of Agricultural and Food Chemistry, 2010, 58, 2995-3001.	2.4	31
79	Basic fibroblast growth factor alleviates metabolic abnormalities in the heart of streptozotocin-induced diabetic rats. International Journal of Diabetes in Developing Countries, 0, , 1.	0.3	0