

Limin Zhang

List of Publications by Year in descending order

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62
papers

3,240
citations

186265

28
h-index

155660

55
g-index

63
all docs

63
docs citations

63
times ranked

5623
citing authors

#	ARTICLE	IF	CITATIONS
1	Intestinal farnesoid X receptor signaling promotes nonalcoholic fatty liver disease. <i>Journal of Clinical Investigation</i> , 2015, 125, 386-402.	8.2	517
2	Persistent Organic Pollutants Modify Gut Microbiota—Host Metabolic Homeostasis in Mice Through Aryl Hydrocarbon Receptor Activation. <i>Environmental Health Perspectives</i> , 2015, 123, 679-688.	6.0	262
3	Systems Responses of Rats to Aflatoxin B1 Exposure Revealed with Metabonomic Changes in Multiple Biological Matrices. <i>Journal of Proteome Research</i> , 2011, 10, 614-623.	3.7	133
4	High-Fat Diet Induces Dynamic Metabolic Alterations in Multiple Biological Matrices of Rats. <i>Journal of Proteome Research</i> , 2013, 12, 3755-3768.	3.7	130
5	Microbiota-Dependent Hepatic Lipogenesis Mediated by Stearoyl CoA Desaturase 1 (SCD1) Promotes Metabolic Syndrome in TLR5-Deficient Mice. <i>Cell Metabolism</i> , 2015, 22, 983-996.	16.2	129
6	Lack of soluble fiber drives diet-induced adiposity in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, G528-G541.	3.4	128
7	Reversing methanogenesis to capture methane for liquid biofuel precursors. <i>Microbial Cell Factories</i> , 2016, 15, 11.	4.0	116
8	Quantitative Analysis of Purine Nucleotides Indicates That Purinosomes Increase de Novo Purine Biosynthesis. <i>Journal of Biological Chemistry</i> , 2015, 290, 6705-6713.	3.4	101
9	Farnesoid X Receptor Signaling Shapes the Gut Microbiota and Controls Hepatic Lipid Metabolism. <i>MSystems</i> , 2016, 1, .	3.8	95
10	Bio-based green composites with high performance from poly(lactic acid) and surface-modified microcrystalline cellulose. <i>Journal of Materials Chemistry</i> , 2012, 22, 15732.	6.7	93
11	Global Metabolomic Responses of <i>Escherichia coli</i> to Heat Stress. <i>Journal of Proteome Research</i> , 2012, 11, 2559-2566.	3.7	87
12	Metabolomics Reveals that Aryl Hydrocarbon Receptor Activation by Environmental Chemicals Induces Systemic Metabolic Dysfunction in Mice. <i>Environmental Science & Technology</i> , 2015, 49, 8067-8077.	10.0	80
13	Selective metabolic effects of gold nanorods on normal and cancer cells and their application in anticancer drug screening. <i>Biomaterials</i> , 2013, 34, 7117-7126.	11.4	77
14	The GW2-WG1-OsbZIP47 pathway controls grain size and weight in rice. <i>Molecular Plant</i> , 2021, 14, 1266-1280.	8.3	70
15	An aldo-keto reductase is responsible for <i>Fusarium</i> toxin-degrading activity in a soil <i>Sphingomonas</i> strain. <i>Scientific Reports</i> , 2017, 7, 9549.	3.3	67
16	Age-Related Topographical Metabolic Signatures for the Rat Gastrointestinal Contents. <i>Journal of Proteome Research</i> , 2012, 11, 1397-1411.	3.7	65
17	<i>Fusarium oxysporum</i> mediates systems metabolic reprogramming of chickpea roots as revealed by a combination of proteomics and metabolomics. <i>Plant Biotechnology Journal</i> , 2016, 14, 1589-1603.	8.3	63
18	Control of Grain Size and Weight by the GSK2-LARGE1/OML4 Pathway in Rice. <i>Plant Cell</i> , 2020, 32, 1905-1918.	6.6	61

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19	Orthogonal Comparison of GC-MS and ¹ H NMR Spectroscopy for Short Chain Fatty Acid Quantitation. <i>Analytical Chemistry</i> , 2017, 89, 7900-7906.	6.5	58
20	Depletion of acetate-producing bacteria from the gut microbiota facilitates cognitive impairment through the gut-brain neural mechanism in diabetic mice. <i>Microbiome</i> , 2021, 9, 145.	11.1	56
21	Expression of the aryl hydrocarbon receptor contributes to the establishment of intestinal microbial community structure in mice. <i>Scientific Reports</i> , 2016, 6, 33969.	3.3	54
22	Tissue Metabonomic Phenotyping for Diagnosis and Prognosis of Human Colorectal Cancer. <i>Scientific Reports</i> , 2016, 6, 20790.	3.3	46
23	Perfluorooctane sulfonate alters gut microbiota-host metabolic homeostasis in mice. <i>Toxicology</i> , 2020, 431, 152365.	4.2	43
24	Metabolomics Reveals that Dietary Ferulic Acid and Quercetin Modulate Metabolic Homeostasis in Rats. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 1723-1731.	5.2	39
25	A newly isolated bacterium <i>Comamonas</i> sp. XL8 alleviates the toxicity of cadmium exposure in rice seedlings by accumulating cadmium. <i>Journal of Hazardous Materials</i> , 2021, 403, 123824.	12.4	37
26	Identification of Three Novel Polyphenolic Compounds, Origanine A-C, with Unique Skeleton from <i>Origanum vulgare</i> L. Using the Hyphenated LC-DAD-SPE-NMR/MS Methods. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 129-135.	5.2	36
27	Synthesis and biological response of casein-based silica nano-composite film for drug delivery system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 257-263.	5.0	36
28	Impaired Intestinal <i>Akkermansia muciniphila</i> and Aryl Hydrocarbon Receptor Ligands Contribute to Nonalcoholic Fatty Liver Disease in Mice. <i>MSystems</i> , 2021, 6, .	3.8	35
29	The domain structure and mobility of semi-crystalline poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate): A solid-state NMR study. <i>Polymer</i> , 2007, 48, 2928-2938.	3.8	29
30	Interactions between Nafion resin and protonated dodecylamine modified montmorillonite: A solid state NMR study. <i>Journal of Colloid and Interface Science</i> , 2007, 311, 38-44.	9.4	28
31	The aryl hydrocarbon receptor as a moderator of host-microbiota communication. <i>Current Opinion in Toxicology</i> , 2017, 2, 30-35.	5.0	28
32	Metabonomic Analysis Reveals Efficient Ameliorating Effects of Acupoint Stimulations on the Menopause-caused Alterations in Mammalian Metabolism. <i>Scientific Reports</i> , 2014, 4, 3641.	3.3	26
33	Long-term chronic exposure to di-(2-ethylhexyl)-phthalate induces obesity via disruption of host lipid metabolism and gut microbiota in mice. <i>Chemosphere</i> , 2022, 287, 132414.	8.2	24
34	Combined NMR and GC-MS Analyses Revealed Dynamic Metabolic Changes Associated with the Carrageenan-Induced Rat Pleurisy. <i>Journal of Proteome Research</i> , 2013, 12, 5520-5534.	3.7	23
35	Metabolic Phenotypes Associated with High-Temperature Tolerance of <i>Porphyra haitanensis</i> Strains. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 8356-8363.	5.2	23
36	<i>In Vitro</i> and <i>In Vivo</i> Studies Reveal that Hesperetin-7-O-glucoside, a Naturally Occurring Monoglucoside, Exhibits Strong Anti-inflammatory Capacity. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 12753-12762.	5.2	23

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37	Unraveling the concentration-dependent metabolic response of <i>Pseudomonas</i> sp. HF-1 to nicotine stress by ¹ H NMR-based metabolomics. <i>Ecotoxicology</i> , 2012, 21, 1314-1324.	2.4	22
38	Microbiome analysis combined with targeted metabolomics reveal immunological anti-tumor activity of icariside I in a melanoma mouse model. <i>Biomedicine and Pharmacotherapy</i> , 2021, 140, 111542.	5.6	21
39	Breaking the T1 Constraint for Quantitative Measurement in Magic Angle Spinning Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 5538-5539.	13.7	20
40	Antioxidant Drug Tempol Promotes Functional Metabolic Changes in the Gut Microbiota. <i>Journal of Proteome Research</i> , 2016, 15, 563-571.	3.7	20
41	Gut Microbiota and Its Metabolite Deoxycholic Acid Contribute to Sucralose Consumption-Induced Nonalcoholic Fatty Liver Disease. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3982-3991.	5.2	20
42	Dose-Dependent Effects of Triclocarban Exposure on Lipid Homeostasis in Rats. <i>Chemical Research in Toxicology</i> , 2019, 32, 2320-2328.	3.3	19
43	Polyacrylate/Surface-Modified ZnO Nanocomposite as Film-Forming Agent for Leather Finishing. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 809-814.	3.4	18
44	Understanding the Molecular Dynamics Associated with Polymorphic Transitions of <i>dl</i> -Norvaline with Solid-State NMR Methods. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2814-2823.	2.6	16
45	Targeted metabolomics reveals that 2,3,7,8-tetrachlorodibenzofuran exposure induces hepatic steatosis in male mice. <i>Environmental Pollution</i> , 2020, 259, 113820.	7.5	15
46	In vitro effects of Triclocarban on adipogenesis in murine preadipocyte and human hepatocyte. <i>Journal of Hazardous Materials</i> , 2020, 399, 122829.	12.4	15
47	Quantitative Measurement of a Chiral Drug in a Complex Matrix: A <i>J</i> -Compensated Quantitative HSQC NMR Method. <i>Analytical Chemistry</i> , 2020, 92, 3636-3642.	6.5	14
48	Survey of nutrients and quality assessment of crab paste by ¹ H NMR spectroscopy and multivariate data analysis. <i>Science Bulletin</i> , 2012, 57, 3353-3362.	1.7	13
49	The aryl hydrocarbon receptor activates ceramide biosynthesis in mice contributing to hepatic lipogenesis. <i>Toxicology</i> , 2021, 458, 152831.	4.2	12
50	A solid-state NMR study of structure and segmental dynamics of poly(propylmethacryl-heptaisobutyl-pss)-co-styrene nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 334-341.	9.4	10
51	<i>TANG1</i> , Encoding a Symplekin_C Domain-Contained Protein, Influences Sugar Responses in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2015, 168, 1000-1012.	4.8	10
52	Metabolomics safety assessments of microcystin exposure via drinking water in rats. <i>Ecotoxicology and Environmental Safety</i> , 2021, 212, 111989.	6.0	10
53	Comprehensive Solid-State NMR Analysis Reveals the Effects of N-Methylation on the Molecular Dynamics of Glycine. <i>Journal of Physical Chemistry B</i> , 2012, 116, 136-146.	2.6	8
54	A prenatal interruption of <i>DISC1</i> function in the brain exhibits a lasting impact on adult behaviors, brain metabolism, and interneuron development. <i>Oncotarget</i> , 2017, 8, 84798-84817.	1.8	8

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55	Metabolomics Reveals Discrimination of Chinese Propolis from Different Climatic Regions. <i>Foods</i> , 2020, 9, 491.	4.3	8
56	Characterization of triclosan-induced hepatotoxicity and triclocarban-triggered enterotoxicity in mice by multiple omics screening. <i>Science of the Total Environment</i> , 2022, 838, 156570.	8.0	8
57	Antagonist of Prostaglandin E ₂ Receptor 4 Induces Metabolic Alterations in Liver of Mice. <i>Journal of Proteome Research</i> , 2015, 14, 1566-1573.	3.7	7
58	Short-Term Intake of Hesperetin-7-O-Glucoside Affects Fecal Microbiota and Host Metabolic Homeostasis in Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 1478-1486.	5.2	7
59	NMR-Based Metabolomics in Cancer Research. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1280, 201-218.	1.6	6
60	Colon Ascendens Stent Peritonitis (CASP) Induces Excessive Inflammation and Systemic Metabolic Dysfunction in a Septic Rat Model. <i>Journal of Proteome Research</i> , 2018, 17, 680-688.	3.7	5
61	Comparison of Metabolic Profiling of Arabidopsis Inflorescences Between Landsberg erecta and Columbia, and Meiosis-Defective Mutants by ¹ H-NMR Spectroscopy. <i>Phenomics</i> , 2021, 1, 73-89.	2.9	4
62	Solid-State NMR Analyses Reveal the Structure Dependence of the Molecular Dynamics for α -Amino Acids. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2096-2103.	2.6	0