

Bin Liu

List of Publications by Year in descending order

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63
papers

2,945
citations

117571

34
h-index

175177

52
g-index

63
all docs

63
docs citations

63
times ranked

2730
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioactive compounds from marine macroalgae and their hypoglycemic benefits. Trends in Food Science and Technology, 2018, 72, 1-12.	7.8	154
2	Ethanol extract of <i>Ganoderma lucidum</i> ameliorates lipid metabolic disorders and modulates the gut microbiota composition in high-fat diet fed rats. Food and Function, 2018, 9, 3419-3431.	2.1	126
3	Regulation of glucose metabolism by bioactive phytochemicals for the management of type 2 diabetes mellitus. Critical Reviews in Food Science and Nutrition, 2019, 59, 830-847.	5.4	123
4	Polysaccharide peptides from <i>Ganoderma lucidum</i> ameliorate lipid metabolic disorders and gut microbiota dysbiosis in high-fat diet-fed rats. Journal of Functional Foods, 2019, 57, 48-58.	1.6	109
5	Hypoglycemic activity and gut microbiota regulation of a novel polysaccharide from <i>Grifola frondosa</i> in type 2 diabetic mice. Food and Chemical Toxicology, 2019, 126, 295-302.	1.8	108
6	Exploring core functional microbiota responsible for the production of volatile flavour during the traditional brewing of Wuyi Hong Qu glutinous rice wine. Food Microbiology, 2018, 76, 487-496.	2.1	105
7	Microbial communities and volatile metabolites in different traditional fermentation starters used for Hong Qu glutinous rice wine. Food Research International, 2019, 121, 593-603.	2.9	105
8	Structural characterization and antidiabetic potential of a novel heteropolysaccharide from <i>Grifola frondosa</i> via IRS1/PI3K-JNK signaling pathways. Carbohydrate Polymers, 2018, 198, 452-461.	5.1	98
9	Hypoglycemic and hypolipidemic activities of <i>Grifola frondosa</i> polysaccharides and their relationships with the modulation of intestinal microflora in diabetic mice induced by high-fat diet and streptozotocin. International Journal of Biological Macromolecules, 2020, 153, 1231-1240.	3.6	96
10	Antioxidant activities of polysaccharides obtained from <i>Chlorella pyrenoidosa</i> via different ethanol concentrations. International Journal of Biological Macromolecules, 2016, 91, 505-509.	3.6	88
11	Effects of domestic cooking process on the chemical and biological properties of dietary phytochemicals. Trends in Food Science and Technology, 2019, 85, 55-66.	7.8	86
12	<i>Monascus</i> yellow, red and orange pigments from red yeast rice ameliorate lipid metabolic disorders and gut microbiota dysbiosis in Wistar rats fed on a high-fat diet. Food and Function, 2019, 10, 1073-1084.	2.1	79
13	Functional properties, structural studies and chemo-enzymatic synthesis of oligosaccharides. Trends in Food Science and Technology, 2017, 66, 135-145.	7.8	77
14	Polyunsaturated fatty acids from microalgae <i>Spirulina platensis</i> modulates lipid metabolism disorders and gut microbiota in high-fat diet rats. Food and Chemical Toxicology, 2019, 131, 110558.	1.8	71
15	Physicochemical Characterization of a Polysaccharide from Green Microalga <i>Chlorella pyrenoidosa</i> and Its Hypolipidemic Activity via Gut Microbiota Regulation in Rats. Journal of Agricultural and Food Chemistry, 2020, 68, 1186-1197.	2.4	65
16	Regulatory Efficacy of the Polyunsaturated Fatty Acids from Microalgae <i>Spirulina platensis</i> on Lipid Metabolism and Gut Microbiota in High-Fat Diet Rats. International Journal of Molecular Sciences, 2018, 19, 3075.	1.8	62
17	Physicochemical characterization of polysaccharides from <i>Chlorella pyrenoidosa</i> and its anti-ageing effects in <i>Drosophila melanogaster</i> . Carbohydrate Polymers, 2018, 185, 120-126.	5.1	61
18	Hypoglycemic and hypolipidemic mechanism of organic chromium derived from chelation of <i>Grifola frondosa</i> polysaccharide-chromium (III) and its modulation of intestinal microflora in high fat-diet and STZ-induced diabetic mice. International Journal of Biological Macromolecules, 2020, 145, 1208-1218.	3.6	60

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19	<i>Spirulina platensis</i> polysaccharides attenuate lipid and carbohydrate metabolism disorder in high-sucrose and high-fat diet-fed rats in association with intestinal microbiota. <i>Food Research International</i> , 2021, 147, 110530.	2.9	58
20	Fermented carrot juice attenuates type 2 diabetes by mediating gut microbiota in rats. <i>Food and Function</i> , 2019, 10, 2935-2946.	2.1	55
21	The protective mechanism of <i>Lactobacillus plantarum</i> FZU3013 against non-alcoholic fatty liver associated with hyperlipidemia in mice fed a high-fat diet. <i>Food and Function</i> , 2020, 11, 3316-3331.	2.1	55
22	Anti-diabetic activity of PUFAs-rich extracts of <i>Chlorella pyrenoidosa</i> and <i>Spirulina platensis</i> in rats. <i>Food and Chemical Toxicology</i> , 2019, 128, 233-239.	1.8	54
23	Ganoderic acid A from <i>Ganoderma lucidum</i> ameliorates lipid metabolism and alters gut microbiota composition in hyperlipidemic mice fed a high-fat diet. <i>Food and Function</i> , 2020, 11, 6818-6833.	2.1	54
24	Regulatory Efficacy of Brown Seaweed <i>Lessonia nigrescens</i> Extract on the Gene Expression Profile and Intestinal Microflora in Type 2 Diabetic Mice. <i>Molecular Nutrition and Food Research</i> , 2018, 62, 1700730.	1.5	52
25	Hypotensive, hypoglycaemic and hypolipidaemic effects of bioactive compounds from microalgae and marine microorganisms. <i>International Journal of Food Science and Technology</i> , 2015, 50, 1705-1717.	1.3	51
26	Effect of Marine Microalga <i>Chlorella pyrenoidosa</i> Ethanol Extract on Lipid Metabolism and Gut Microbiota Composition in High-Fat Diet-Fed Rats. <i>Marine Drugs</i> , 2018, 16, 498.	2.2	50
27	Extracts of <i>Ganoderma lucidum</i> attenuate lipid metabolism and modulate gut microbiota in high-fat diet fed rats. <i>Journal of Functional Foods</i> , 2018, 46, 403-412.	1.6	50
28	Effect of <i>Grifola frondosa</i> 95% ethanol extract on lipid metabolism and gut microbiota composition in high-fat diet-fed rats. <i>Food and Function</i> , 2018, 9, 6268-6278.	2.1	48
29	Microbial diversity and flavor of Chinese rice wine (Huangjiu): an overview of current research and future prospects. <i>Current Opinion in Food Science</i> , 2021, 42, 37-50.	4.1	45
30	<i>Ganoderma</i> polysaccharide and chitosan synergistically ameliorate lipid metabolic disorders and modulate gut microbiota composition in high fat diet-fed golden hamsters. <i>Journal of Food Biochemistry</i> , 2020, 44, e13109.	1.2	43
31	The Positive Effects of <i>Grifola frondosa</i> Heteropolysaccharide on NAFLD and Regulation of the Gut Microbiota. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5302.	1.8	41
32	Preparation of <i>Ganoderma lucidum</i> polysaccharide-chromium (III) complex and its hypoglycemic and hypolipidemic activities in high-fat and high-fructose diet-induced pre-diabetic mice. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 782-793.	3.6	38
33	<i>Monascus purpureus</i> -fermented common buckwheat protects against dyslipidemia and non-alcoholic fatty liver disease through the regulation of liver metabolome and intestinal microbiome. <i>Food Research International</i> , 2020, 136, 109511.	2.9	38
34	Development of propidium monoazide combined with real-time quantitative PCR (PMA-qPCR) assays to quantify viable dominant microorganisms responsible for the traditional brewing of Hong Qu glutinous rice wine. <i>Food Control</i> , 2016, 66, 69-78.	2.8	37
35	Characterization of the dominant bacterial communities of traditional fermentation starters for Hong Qu glutinous rice wine by means of MALDI-TOF mass spectrometry fingerprinting, 16S rRNA gene sequencing and species-specific PCRs. <i>Food Control</i> , 2016, 67, 292-302.	2.8	35
36	Comparative transcriptomic analysis reveals the regulatory effects of inorganic nitrogen on the biosynthesis of <i>Monascus</i> pigments and citrinin. <i>RSC Advances</i> , 2020, 10, 5268-5282.	1.7	35

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37	The regulation mechanisms of soluble starch and glycerol for production of azaphilone pigments in <i>Monascus purpureus</i> FAFU618 as revealed by comparative proteomic and transcriptional analyses. <i>Food Research International</i> , 2018, 106, 626-635.	2.9	34
38	Regulatory effect of <i>Grifola frondosa</i> extract rich in polysaccharides and organic acids on glycolipid metabolism and gut microbiota in rats. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 1030-1039.	3.6	34
39	Anti-fatigue property of the oyster polypeptide fraction and its effect on gut microbiota in mice. <i>Food and Function</i> , 2020, 11, 8659-8669.	2.1	32
40	Regulatory Efficacy of <i>Spirulina platensis</i> Protease Hydrolyzate on Lipid Metabolism and Gut Microbiota in High-Fat Diet-Fed Rats. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4023.	1.8	31
41	Luteolin cooperated with metformin hydrochloride alleviates lipid metabolism disorders and optimizes intestinal flora compositions of high-fat diet mice. <i>Food and Function</i> , 2020, 11, 10033-10046.	2.1	30
42	Protective Mechanism of Common Buckwheat (<i>Fagopyrum esculentum</i> Moench.) against Nonalcoholic Fatty Liver Disease Associated with Dyslipidemia in Mice Fed a High-Fat and High-Cholesterol Diet. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 6530-6543.	2.4	27
43	<i>Spirulina</i> active substance mediated gut microbes improve lipid metabolism in high-fat diet fed rats. <i>Journal of Functional Foods</i> , 2019, 59, 215-222.	1.6	26
44	Anaerobic digestion of spent mushroom substrate under thermophilic conditions: performance and microbial community analysis. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 499-507.	1.7	25
45	Effect of <i>Chlorella Pyrenoidosa</i> Protein Hydrolysate-Calcium Chelate on Calcium Absorption Metabolism and Gut Microbiota Composition in Low-Calcium Diet-Fed Rats. <i>Marine Drugs</i> , 2019, 17, 348.	2.2	25
46	Physicochemical characterization and antioxidant effects of green microalga <i>Chlorella pyrenoidosa</i> polysaccharide by regulation of microRNAs and gut microbiota in <i>Caenorhabditis elegans</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 168, 152-162.	3.6	24
47	Amelioration of type 2 diabetes by the novel 6, 8-guanidyl luteolin quinone-chromium coordination via biochemical mechanisms and gut microbiota interaction. <i>Journal of Advanced Research</i> , 2023, 46, 173-188.	4.4	19
48	Coumarin-rich <i>Grifola frondosa</i> ethanol extract alleviate lipid metabolism disorders and modulates intestinal flora compositions of high-fat diet rats. <i>Journal of Functional Foods</i> , 2021, 85, 104649.	1.6	15
49	Anti-Diabetic Effects of Ethanol Extract from <i>Sanghuangporous vaninii</i> in High-Fat/Sucrose Diet and Streptozotocin-Induced Diabetic Mice by Modulating Gut Microbiota. <i>Foods</i> , 2022, 11, 974.	1.9	15
50	Anti-diabetic effect of aloin via JNK-IRS1/PI3K pathways and regulation of gut microbiota. <i>Food Science and Human Wellness</i> , 2022, 11, 189-198.	2.2	14
51	Prebiotic <i>Agrocybe cylindracea</i> crude polysaccharides combined with <i>Lactobacillus rhamnosus</i> GG postpone aging-related oxidative stress in mice. <i>Food and Function</i> , 2022, 13, 1218-1231.	2.1	14
52	The Protective Effects of Ganoderic Acids from <i>Ganoderma lucidum</i> Fruiting Body on Alcoholic Liver Injury and Intestinal Microflora Disturbance in Mice with Excessive Alcohol Intake. <i>Foods</i> , 2022, 11, 949.	1.9	10
53	Integrative Metabolomic and Transcriptomic Analyses Uncover Metabolic Alterations and Pigment Diversity in <i>Monascus</i> in Response to Different Nitrogen Sources. <i>MSystems</i> , 2021, 6, e0080721.	1.7	9
54	6,8-(1,3-Diaminoguanidine) luteolin and its Cr complex show hypoglycemic activities and alter intestinal microbiota composition in type 2 diabetes mice. <i>Food and Function</i> , 2022, 13, 3572-3589.	2.1	9

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55	Spirulina compounds show hypoglycemic activity and intestinal flora regulation in type 2 diabetes mellitus mice. <i>Algal Research</i> , 2022, 66, 102791.	2.4	7
56	Thermophilic Anaerobic Digestion of <i>Arundo donax</i> cv. Lvzhou No. 1 for Biogas Production: Structure and Functional Analysis of Microbial Communities. <i>Bioenergy Research</i> , 2020, 13, 866-877.	2.2	6
57	Effects of alkaloid-rich extracts obtained from <i>Grifola frondosa</i> on gut microbiota and glucose homeostasis in rats. <i>Food and Function</i> , 2022, 13, 2729-2742.	2.1	6
58	Hypolipidemic properties of <i>Chlorella pyrenoidosa</i> organic acids via AMPK/HMGCR/SREBP1c pathway in vivo. <i>Food Science and Nutrition</i> , 2021, 9, 459-468.	1.5	5
59	Regulatory effects of a <i>Grifola frondosa</i> extract rich in pseudobaptigenin and cyanidin-3-O-xylosylrutinoside on glycolipid metabolism and the gut microbiota in high-fat diet-fed rats. <i>Journal of Functional Foods</i> , 2020, 75, 104230.	1.6	4
60	Ameliorating Effect on Glycolipid Metabolism of Spirulina Functional Formulation Combination from Traditional Chinese Medicine. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-14.	1.9	4
61	A specific selenium-chelating peptide isolated from the protein hydrolysate of <i>Grifola frondosa</i> . <i>RSC Advances</i> , 2021, 11, 10272-10284.	1.7	3
62	Anti-Diabetic Potential of <i>Chlorella Pyrenoidosa</i> -Based Mixture and its Regulation of Gut Microbiota. <i>Plant Foods for Human Nutrition</i> , 2022, 77, 292-298.	1.4	3
63	Fabrication and Characterization of <i>Grifola frondosa</i> Protein Hydrolysate-selenium Chelate. <i>Food Science and Technology Research</i> , 2020, 26, 101-110.	0.3	2