

Zhigang Liu

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,905
citations

81743

39
h-index

138251

58
g-index

81
all docs

81
docs citations

81
times ranked

4420
citing authors

#	ARTICLE	IF	CITATIONS
1	Dietary protein and amino acid restriction: Roles in metabolic health and aging-related diseases. <i>Free Radical Biology and Medicine</i> , 2022, 178, 226-242.	1.3	19
2	Cognitive enhancement and neuroprotective effects of OABL, a sesquiterpene lactone in 5xFAD Alzheimer's disease mice model. <i>Redox Biology</i> , 2022, 50, 102229.	3.9	41
3	Seabuckthorn polysaccharide ameliorates high-fat diet-induced obesity by gut microbiota-SCFAs-liver axis. <i>Food and Function</i> , 2022, 13, 2925-2937.	2.1	47
4	The neuroprotective effects of intermittent fasting on brain aging and neurodegenerative diseases via regulating mitochondrial function. <i>Free Radical Biology and Medicine</i> , 2022, 182, 206-218.	1.3	21
5	Preventive Effects of Sesamol on Deep-Frying Oil-Induced Liver Metabolism Disorders by Altering Gut Microbiota and Protecting Gut Barrier Integrity. <i>Molecular Nutrition and Food Research</i> , 2022, 66, e2101122.	1.5	8
6	Methionine restriction alleviates age-associated cognitive decline via fibroblast growth factor 21. <i>Redox Biology</i> , 2021, 41, 101940.	3.9	30
7	High-fiber diet mitigates maternal obesity-induced cognitive and social dysfunction in the offspring via gut-brain axis. <i>Cell Metabolism</i> , 2021, 33, 923-938.e6.	7.2	110
8	Mannan oligosaccharide attenuates cognitive and behavioral disorders in the 5xFAD Alzheimer's disease mouse model via regulating the gut microbiota-brain axis. <i>Brain, Behavior, and Immunity</i> , 2021, 95, 330-343.	2.0	83
9	Sesamol Attenuates Amyloid Peptide Accumulation and Cognitive Deficits in APP/PS1 Mice: The Mediating Role of the Gut-Brain Axis. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 12717-12729.	2.4	29
10	Methionine Restriction Improves Gut Barrier Function by Reshaping Diurnal Rhythms of Inflammation-Related Microbes in Aged Mice. <i>Frontiers in Nutrition</i> , 2021, 8, 746592.	1.6	13
11	Methionine restriction alleviates high-fat diet-induced obesity: Involvement of diurnal metabolism of lipids and bile acids. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165908.	1.8	31
12	Methionine Restriction Regulates Cognitive Function in High-Fat Diet-Fed Mice: Roles of Diurnal Rhythms of SCFAs Producing and Inflammation-Related Microbes. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000190.	1.5	30
13	Sesamol Supplementation Attenuates DSS-Induced Colitis via Mediating Gut Barrier Integrity, Inflammatory Responses, and Reshaping Gut Microbiome. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 10697-10708.	2.4	66
14	High-Dietary Fiber Intake Alleviates Antenatal Obesity-Induced Postpartum Depression: Roles of Gut Microbiota and Microbial Metabolite Short-chain Fatty Acid Involved. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 13697-13710.	2.4	62
15	Sea-Buckthorn Flavonoids Alleviate High-Fat and High-Fructose Diet-Induced Cognitive Impairment by Inhibiting Insulin Resistance and Neuroinflammation. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 5835-5846.	2.4	37
16	Lycopene Alleviates DSS-Induced Colitis and Behavioral Disorders via Mediating Microbes-Gut-Brain Axis Balance. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3963-3975.	2.4	84
17	<i>Ficus carica</i> polysaccharide attenuates DSS-induced ulcerative colitis in C57BL/6 mice. <i>Food and Function</i> , 2020, 11, 6666-6679.	2.1	62
18	Gut microbiota mediates intermittent-fasting alleviation of diabetes-induced cognitive impairment. <i>Nature Communications</i> , 2020, 11, 855.	5.8	256

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19	Protective Effects of Sesamol on Systemic Inflammation and Cognitive Impairment in Aging Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3099-3111.	2.4	42
20	Lycopene prevents lipid accumulation in hepatocytes by stimulating PPAR α and improving mitochondrial function. <i>Journal of Functional Foods</i> , 2020, 67, 103857.	1.6	21
21	Sesamol incorporated cellulose acetate-zein composite nanofiber membrane: An efficient strategy to accelerate diabetic wound healing. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 627-638.	3.6	75
22	Alternate-day fasting alleviates diabetes-induced glycolipid metabolism disorders: roles of FGF21 and bile acids. <i>Journal of Nutritional Biochemistry</i> , 2020, 83, 108403.	1.9	35
23	Secoisolariciresinol diglucoside alleviates hepatic lipid metabolic misalignment involving the endoplasmic reticulum-mitochondrial axis. <i>Food and Function</i> , 2020, 11, 3952-3963.	2.1	8
24	Effects of alternate-day fasting, time-restricted fasting and intermittent energy restriction DSS-induced on colitis and behavioral disorders. <i>Redox Biology</i> , 2020, 32, 101535.	3.9	71
25	Resveratrol Maintains Lipid Metabolism Homeostasis via One of the Mechanisms Associated with the Key Circadian Regulator Bmal1. <i>Molecules</i> , 2019, 24, 2916.	1.7	19
26	Resveratrol Prevents Acrylamide-Induced Mitochondrial Dysfunction and Inflammatory Responses via Targeting Circadian Regulator Bmal1 and Cry1 in Hepatocytes. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 8510-8519.	2.4	43
27	Mannan Oligosaccharide Suppresses Lipid Accumulation and Appetite in Western-Diet-Induced Obese Mice Via Reshaping Gut Microbiome and Enhancing Short-Chain Fatty Acids Production. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1900521.	1.5	48
28	Supplementation of Sesamin Alleviates Stress-Induced Behavioral and Psychological Disorders via Reshaping the Gut Microbiota Structure. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 12441-12451.	2.4	42
29	Chicoric acid improves neuron survival against inflammation by promoting mitochondrial function and energy metabolism. <i>Food and Function</i> , 2019, 10, 6157-6169.	2.1	17
30	Fabrication and characterization of functional protein-polysaccharide-polyphenol complexes assembled from lactoferrin, hyaluronic acid and (γ)-epigallocatechin gallate. <i>Food and Function</i> , 2019, 10, 1098-1108.	2.1	27
31	Intermittent Fasting Alleviates Diabetes-induced Cognitive Decline via Gut Microbiota-metabolites-brain Axis (OR32-04-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz052.OR32-04-19.	0.1	5
32	Methionine Restriction Alleviates Aging-related Cognitive Dysfunction via Stimulating FGF21-driven Mitochondrial Biogenesis (P14-026-19). <i>Current Developments in Nutrition</i> , 2019, 3, .	0.1	3
33	ApoE-Dependent Protective Effects of Sesamol on High-Fat Diet-Induced Behavioral Disorders: Regulation of the Microbiome-Gut-Brain Axis. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 6190-6201.	2.4	42
34	Eriodictyol alleviates lipopolysaccharide-triggered oxidative stress and synaptic dysfunctions in BV2 microglial cells and mouse brain. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 14756-14770.	1.2	41
35	Lycopene supplementation attenuates western diet-induced body weight gain through increasing the expressions of thermogenic/mitochondrial functional genes and improving insulin resistance in the adipose tissue of obese mice. <i>Journal of Nutritional Biochemistry</i> , 2019, 69, 63-72.	1.9	36
36	Nobiletin Protects against Systemic Inflammation-Stimulated Memory Impairment via MAPK and NF- κ B Signaling Pathways. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 5122-5134.	2.4	65

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37	Lycopene ameliorates systemic inflammation-induced synaptic dysfunction <i>via</i> improving insulin resistance and mitochondrial dysfunction in the liver-brain axis. <i>Food and Function</i> , 2019, 10, 2125-2137.	2.1	40
38	Anti-Fatigue Activity of Aqueous Extracts of <i>Sonchus arvensis</i> L. in Exercise Trained Mice. <i>Molecules</i> , 2019, 24, 1168.	1.7	27
39	(+)-Sesamin attenuates chronic unpredictable mild stress-induced depressive-like behaviors and memory deficits via suppression of neuroinflammation. <i>Journal of Nutritional Biochemistry</i> , 2019, 64, 61-71.	1.9	76
40	Acrylamide aggravates cognitive deficits at night period via the gut-brain axis by reprogramming the brain circadian clock. <i>Archives of Toxicology</i> , 2019, 93, 467-486.	1.9	29
41	Lycopene attenuates western-diet-induced cognitive deficits via improving glycolipid metabolism dysfunction and inflammatory responses in gut-liver-brain axis. <i>International Journal of Obesity</i> , 2019, 43, 1735-1746.	1.6	47
42	Lycopene Supplementation Attenuates Oxidative Stress, Neuroinflammation, and Cognitive Impairment in Aged CD-1 Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 3127-3136.	2.4	64
43	Extract of sesame cake and sesamol alleviate chronic unpredictable mild stress-induced depressive-like behaviors and memory deficits. <i>Journal of Functional Foods</i> , 2018, 42, 237-247.	1.6	49
44	Supplementation of lycopene attenuates lipopolysaccharide-induced amyloidogenesis and cognitive impairments via mediating neuroinflammation and oxidative stress. <i>Journal of Nutritional Biochemistry</i> , 2018, 56, 16-25.	1.9	110
45	Microwave processing: Effects and impacts on food components. <i>Critical Reviews in Food Science and Nutrition</i> , 2018, 58, 2476-2489.	5.4	76
46	Protective effects of sesamol on systemic oxidative stress-induced cognitive impairments <i>via</i> regulation of Nrf2/Keap1 pathway. <i>Food and Function</i> , 2018, 9, 5912-5924.	2.1	51
47	Acrylamide Defects the Expression Pattern of the Circadian Clock and Mitochondrial Dynamics in C57BL/6J Mice Liver and HepG2 Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10252-10266.	2.4	18
48	Eriodictyol Attenuates LPS-Induced Neuroinflammation, Amyloidogenesis, and Cognitive Impairments via the Inhibition of NF- κ B in Male C57BL/6J Mice and BV2 Microglial Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10205-10214.	2.4	79
49	Cichoric Acid Prevents Free-Fatty-Acid-Induced Lipid Metabolism Disorders via Regulating Bmal1 in HepG2 Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 9667-9678.	2.4	41
50	Sesamol ameliorates high-fat and high-fructose induced cognitive defects via improving insulin signaling disruption in the central nervous system. <i>Food and Function</i> , 2017, 8, 710-719.	2.1	43
51	Cichoric acid regulates the hepatic glucose homeostasis via AMPK pathway and activates the antioxidant response in high glucose-induced hepatocyte injury. <i>RSC Advances</i> , 2017, 7, 1363-1375.	1.7	29
52	EGCG ameliorates diet-induced metabolic syndrome associating with the circadian clock. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1575-1589.	1.8	81
53	Dietary tea polyphenols ameliorate metabolic syndrome and memory impairment via circadian clock related mechanisms. <i>Journal of Functional Foods</i> , 2017, 34, 168-180.	1.6	63
54	Front cover: Sesamol supplementation prevents systemic inflammation-induced memory impairment and amyloidogenesis via inhibition of nuclear factor kappaB. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1770051.	1.5	2

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55	Athyrium multidentatum (Doll.) Ching extract induce apoptosis via mitochondrial dysfunction and oxidative stress in HepG2 cells. <i>Scientific Reports</i> , 2017, 7, 2275.	1.6	22
56	Lipoic acid prevents acrylamide-induced neurotoxicity in CD-1 mice and BV2 microglial cells via maintaining redox homeostasis. <i>Journal of Functional Foods</i> , 2017, 35, 363-375.	1.6	11
57	Sesamol Induces Human Hepatocellular Carcinoma Cells Apoptosis by Impairing Mitochondrial Function and Suppressing Autophagy. <i>Scientific Reports</i> , 2017, 7, 45728.	1.6	58
58	Chicoric Acid Ameliorates Lipopolysaccharide-Induced Oxidative Stress via Promoting the Keap1/Nrf2 Transcriptional Signaling Pathway in BV-2 Microglial Cells and Mouse Brain. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 338-347.	2.4	64
59	Chicoric acid supplementation prevents systemic inflammation-induced memory impairment and amyloidogenesis via inhibition of NF- κ B. <i>FASEB Journal</i> , 2017, 31, 1494-1507.	0.2	110
60	Sesamol ameliorates diet-induced obesity in C57BL/6J mice and suppresses adipogenesis in 3T3-L1 cells via regulating mitochondria-lipid metabolism. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600717.	1.5	58
61	Supplementation of lycopene attenuates oxidative stress induced neuroinflammation and cognitive impairment via Nrf2/NF- κ B transcriptional pathway. <i>Food and Chemical Toxicology</i> , 2017, 109, 505-516.	1.8	126
62	Comparison of chicoric acid, and its metabolites caffeic acid and caftaric acid: In vitro protection of biological macromolecules and inflammatory responses in BV2 microglial cells. <i>Food Science and Human Wellness</i> , 2017, 6, 155-166.	2.2	16
63	Chicoric acid supplementation ameliorates cognitive impairment induced by oxidative stress via promotion of antioxidant defense system. <i>RSC Advances</i> , 2017, 7, 36149-36162.	1.7	24
64	Effects of Lipoic Acid on High-Fat Diet-Induced Alteration of Synaptic Plasticity and Brain Glucose Metabolism: A PET/CT and 13 C-NMR Study. <i>Scientific Reports</i> , 2017, 7, 5391.	1.6	32
65	Protective effects of lipoic acid against acrylamide-induced neurotoxicity: involvement of mitochondrial energy metabolism and autophagy. <i>Food and Function</i> , 2017, 8, 4657-4667.	2.1	34
66	Chicoric acid improved hyperglycaemia and restored muscle injury via activating antioxidant response in MLD-STZ-induced diabetic mice. <i>Food and Chemical Toxicology</i> , 2017, 107, 138-149.	1.8	29
67	Sesamol supplementation prevents systemic inflammation-induced memory impairment and amyloidogenesis via inhibition of nuclear factor kappaB. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600734.	1.5	36
68	Mitochondrial function in ageing: coordination with signalling and transcriptional pathways. <i>Journal of Physiology</i> , 2016, 594, 2025-2042.	1.3	67
69	Pharmacokinetics, tissue distribution, and plasma protein binding study of chicoric acid by HPLC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1031, 139-145.	1.2	29
70	High-Fat Diet Induces Hepatic Insulin Resistance and Impairment of Synaptic Plasticity. <i>PLoS ONE</i> , 2015, 10, e0128274.	1.1	161
71	Chicoric Acid Reverses Insulin Resistance and Suppresses Inflammatory Responses in the Glucosamine-Induced HepG2 Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 10903-10913.	2.4	56
72	Acrylamide induces mitochondrial dysfunction and apoptosis in BV-2 microglial cells. <i>Free Radical Biology and Medicine</i> , 2015, 84, 42-53.	1.3	85

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73	Energy-Redox Axis in Mitochondria: Interconnection of Energy-Transducing Capacity and Redox Status. <i>Oxidative Stress and Disease</i> , 2015, , 29-44.	0.3	1
74	Astaxanthin alleviates brain aging in rats by attenuating oxidative stress and increasing BDNF levels. <i>Food and Function</i> , 2014, 5, 158-166.	2.1	113
75	Carnosic acid attenuates lipopolysaccharide-induced liver injury in rats via fortifying cellular antioxidant defense system. <i>Food and Chemical Toxicology</i> , 2013, 53, 1-9.	1.8	59
76	Herbacetin induces apoptosis in HepG2 cells: Involvements of ROS and PI3K/Akt pathway. <i>Food and Chemical Toxicology</i> , 2013, 51, 426-433.	1.8	44
77	The interaction of sesamol with DNA and cytotoxicity, apoptosis, and localization in HepG2 cells. <i>Food Chemistry</i> , 2013, 141, 289-296.	4.2	59
78	Novel physiological properties of ethanol extracts from <i>Eremurus chinensis</i> Fedtsch. roots: in vitro antioxidant and anticancer activities. <i>Food and Function</i> , 2012, 3, 1310.	2.1	12