Qixiao Zhai

List of Publications by Citations

112 papers	2,114 citations	24 h-index	41 g-index
123 ext. papers	3,397 ext. citations	5.8 avg, IF	5.53 L-index

#	Paper	IF	Citations
112	Dietary strategies for the treatment of cadmium and lead toxicity. *Nutrients*, **2015**, 7, 552-71	6.7	147
111	Protective effects of Lactobacillus plantarum CCFM8610 against acute cadmium toxicity in mice. *Applied and Environmental Microbiology*, **2013**, 79, 1508-15	4.8	128
110	Oral Administration of Probiotics Inhibits Absorption of the Heavy Metal Cadmium by Protecting the Intestinal Barrier. *Applied and Environmental Microbiology*, **2016**, 82, 4429-40	4.8	93
109	Protective effects of Lactobacillus plantarum CCFM8610 against chronic cadmium toxicity in mice indicate routes of protection besides intestinal sequestration. *Applied and Environmental Microbiology*, **2014**, 80, 4063-71	4.8	91
108	A next generation probiotic,. *Critical Reviews in Food Science and Nutrition*, **2019**, 59, 3227-3236	11.5	85
107	Surface components and metabolites of probiotics for regulation of intestinal epithelial barrier. *Microbial Cell Factories*, **2020**, 19, 23	6.4	80
106	Screening of lactic acid bacteria with potential protective effects against cadmium toxicity. *Food Control*, **2015**, 54, 23-30	6.2	80
105	Effect of dietary probiotic supplementation on intestinal microbiota and physiological conditions of Nile tilapia (Oreochromis niloticus) under waterborne cadmium exposure. *Antonie Van Leeuwenhoek*, **2017**, 110, 501-513	2.1	62
104	Investigations of Bacteroides spp. towards next-generation probiotics. *Food Research International*, **2019**, 116, 637-644	7	59
103	Disturbance of trace element and gut microbiota profiles as indicators of autism spectrum disorder: A pilot study of Chinese children. *Environmental Research*, **2019**, 171, 501-509	7.9	50
102	Gut microbiota: A target for heavy metal toxicity and a probiotic protective strategy. *Science of the Total Environment*, **2020**, 742, 140429	10.2	48
101	Effects of Dietary Selenium Supplementation on Intestinal Barrier and Immune Responses Associated with Its Modulation of Gut Microbiota. *Environmental Science and Technology Letters*, **2018**, 5, 724-730	11	47
100	Novel strains of Bacteroides fragilis and Bacteroides ovatus alleviate the LPS-induced inflammation in mice. *Applied Microbiology and Biotechnology*, **2019**, 103, 2353-2365	5.7	41
99	Lactobacillus plantarum CCFM10 alleviating oxidative stress and restoring the gut microbiota in d-galactose-induced aging mice. *Food and Function*, **2018**, 9, 917-924	6.1	39
98	Beneficial effect of GABA-rich fermented milk on insomnia involving regulation of gut microbiota. *Microbiological Research*, **2020**, 233, 126409	5.3	35
97	Identification of key proteins and pathways in cadmium tolerance of Lactobacillus plantarum strains by proteomic analysis. *Scientific Reports*, **2017**, 7, 1182	4.9	33
96	Structural and Functional Alterations in the Microbial Community and Immunological Consequences in a Mouse Model of Antibiotic-Induced Dysbiosis. *Frontiers in Microbiology*, **2018**, 9, 1948	5.7	33

95	Restoration of cefixime-induced gut microbiota changes by Lactobacillus cocktails and fructooligosaccharides in a mouse model. *Microbiological Research*, **2017**, 200, 14-24	5.3	32
94	Dietary Lactobacillus plantarum supplementation enhances growth performance and alleviates aluminum toxicity in tilapia. *Ecotoxicology and Environmental Safety*, **2017**, 143, 307-314	7	30
93	Potential of Lactobacillus plantarum CCFM639 in Protecting against Aluminum Toxicity Mediated by Intestinal Barrier Function and Oxidative Stress. *Nutrients*, **2016**, 8,	6.7	30
92	Lactobacillus plantarum CCFM8661 modulates bile acid enterohepatic circulation and increases lead excretion in mice. *Food and Function*, **2019**, 10, 1455-1464	6.1	29
91	The cadmium binding characteristics of a lactic acid bacterium in aqueous solutions and its application for removal of cadmium from fruit and vegetable juices. *RSC Advances*, **2016**, 6, 5990-5998	3.7	28
90	Protective Effects of Lactobacillus plantarum CCFM8246 against Copper Toxicity in Mice. *PLoS ONE*, **2015**, 10, e0143318	3.7	28
89	Dietary Lactobacillus plantarum supplementation decreases tissue lead accumulation and alleviates lead toxicity in Nile tilapia (Oreochromis niloticus). *Aquaculture Research*, **2017**, 48, 5094-5103	1.9	27
88	A potential species of next-generation probiotics? The dark and light sides of Bacteroides fragilis in health. *Food Research International*, **2019**, 126, 108590	7	24
87	Lactobacillus plantarum CCFM639 Alleviate Trace Element Imbalance-Related Oxidative Stress in Liver and Kidney of Chronic Aluminum Exposure Mice. *Biological Trace Element Research*, **2017**, 176, 342-349	4.5	24
86	Dietary supplementation with probiotics regulates gut microbiota structure and function in Nile tilapia exposed to aluminum. *PeerJ*, **2019**, 7, e6963	3.1	23
85	The binding characters study of lead removal by Lactobacillus plantarum CCFM8661. *European Food Research and Technology*, **2016**, 242, 1621-1629	3.4	22
84	Protective Effects of Dietary Supplements Containing Probiotics, Micronutrients, and Plant Extracts Against Lead Toxicity in Mice. *Frontiers in Microbiology*, **2018**, 9, 2134	5.7	22
83	The role of MUC2 mucin in intestinal homeostasis and the impact of dietary components on MUC2 expression. *International Journal of Biological Macromolecules*, **2020**, 164, 884-891	7.9	21
82	Lactobacillus plantarum CCFM639 alleviates aluminium toxicity. *Applied Microbiology and Biotechnology*, **2016**, 100, 1891-1900	5.7	20
81	Oral Supplementation of Lead-Intolerant Intestinal Microbes Protects Against Lead (Pb) Toxicity in Mice. *Frontiers in Microbiology*, **2019**, 10, 3161	5.7	20
80	Food-borne patulin toxicity is related to gut barrier disruption and can be prevented by docosahexaenoic acid and probiotic supplementation. *Food and Function*, **2019**, 10, 1330-1339	6.1	19
79	Meta-analysis of randomized controlled trials of the effects of probiotics on functional constipation in adults. *Clinical Nutrition*, **2020**, 39, 2960-2969	5.9	19
78	Identification of the key physiological characteristics of Lactobacillus plantarum strains for ulcerative colitis alleviation. *Food and Function*, **2020**, 11, 1279-1291	6.1	18

77	Modulation of the gut microbiota by a galactooligosaccharide protects against heavy metal lead accumulation in mice. *Food and Function*, **2019**, 10, 3768-3781	6.1	17
76	Screening of Lactobacillus salivarius strains from the feces of Chinese populations and the evaluation of their effects against intestinal inflammation in mice. *Food and Function*, **2020**, 11, 221-235	6.1	17
75	Mining Lactobacillus and Bifidobacterium for organisms with long-term gut colonization potential. *Clinical Nutrition*, **2020**, 39, 1315-1323	5.9	17
74	Progress in the distribution, toxicity, control, and detoxification of patulin: A review. *Toxicon*, **2020**, 184, 83-93	2.8	16
73	Increased Cadmium Excretion Due to Oral Administration of Lactobacillus plantarum Strains by Regulating Enterohepatic Circulation in Mice. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 3956-3965	5.7	15
72	Protective effects of lactic acid bacteria-fermented soymilk against chronic cadmium toxicity in mice. *RSC Advances*, **2015**, 5, 4648-4658	3.7	15
71	Varied doses and chemical forms of selenium supplementation differentially affect mouse intestinal physiology. *Food and Function*, **2019**, 10, 5398-5412	6.1	15
70	Pilot Safety Evaluation of a Novel Strain of. *Frontiers in Genetics*, **2018**, 9, 539	4.5	15
69	Roles of intestinal in human health and diseases. *Critical Reviews in Food Science and Nutrition*, **2021**, 61, 3518-3536	11.5	14
68	Comparative genomics shows niche-specific variations of Lactobacillus plantarum strains isolated from human, Drosophila melanogaster, vegetable and dairy sources. *Food Bioscience*, **2020**, 35, 100581	4.9	13
67	The therapeutic protection of a living and dead Lactobacillus strain against aluminum-induced brain and liver injuries in C57BL/6 mice. *PLoS ONE*, **2017**, 12, e0175398	3.7	13
66	Metabolomics analysis reveals heavy metal copper-induced cytotoxicity in HT-29 human colon cancer cells. *RSC Advances*, **2016**, 6, 78445-78456	3.7	13
65	Effects of Probiotic Supplementation on Dyslipidemia in Type 2 Diabetes Mellitus: A Meta-Analysis of Randomized Controlled Trials. *Foods*, **2020**, 9,	4.9	13
64	New insights in integrated response mechanism of Lactobacillus plantarum under excessive manganese stress. *Food Research International*, **2017**, 102, 323-332	7	12
63	Lactobacillus fermentum and its potential immunomodulatory properties. *Journal of Functional Foods*, **2019**, 56, 21-32	5.1	12
62	Comparative metabolomic analysis reveals global cadmium stress response of Lactobacillus plantarum strains. *Metallomics*, **2018**, 10, 1065-1077	4.5	12
61	Influence of oral administration of Akkermansia muciniphila on the tissue distribution and gut microbiota composition of acute and chronic cadmium exposure mice. *FEMS Microbiology Letters*, **2019**, 366,	2.9	12
60	Antibiotic-induced gut dysbiosis and barrier disruption and the potential protective strategies. *Critical Reviews in Food Science and Nutrition*, **2020**, 1-26	11.5	12

59	Isolation of Low-Abundant Bacteroidales in the Human Intestine and the Analysis of Their Differential Utilization Based on Plant-Derived Polysaccharides. *Frontiers in Microbiology*, **2018**, 9, 1319	5.7	11
58	Characteristics of the urinary microbiome in kidney stone patients with hypertension. *Journal of Translational Medicine*, **2020**, 18, 130	8.5	10
57	The characteristics of patulin detoxification by Lactobacillus plantarum 13M5. *Food and Chemical Toxicology*, **2020**, 146, 111787	4.7	10
56	Desulfovibrio diazotrophicus sp. nov., a sulfate-reducing bacterium from the human gut capable of nitrogen fixation. *Environmental Microbiology*, **2021**, 23, 3164-3181	5.2	9
55	Selection, identification and application of DNA aptamers for the detection of Bifidobacterium breve. *RSC Advances*, **2017**, 7, 11672-11679	3.7	8
54	Meta-analysis of the efficacy of probiotic-supplemented therapy on the eradication of H. pylori and incidence of therapy-associated side effects. *Microbial Pathogenesis*, **2020**, 147, 104403	3.8	8
53	The effects of diet and gut microbiota on the regulation of intestinal mucin glycosylation. *Carbohydrate Polymers*, **2021**, 258, 117651	10.3	8
52	Lactobacillus reuteri A9 and Lactobacillus mucosae A13 isolated from Chinese superlongevity people modulate lipid metabolism in a hypercholesterolemia rat model. *FEMS Microbiology Letters*, **2019**, 366,	2.9	8
51	Gut Colonization Mechanisms of and : An Argument for Personalized Designs. *Annual Review of Food Science and Technology*, **2021**, 12, 213-233	14.7	8
50	Dose-dependent effects of lead induced gut injuries: An in□vitro and in□vivo study. *Chemosphere*, **2021**, 266, 129130	8.4	8
49	Efficacy of probiotics in multiple sclerosis: a systematic review of preclinical trials and meta-analysis of randomized controlled trials. *Food and Function*, **2021**, 12, 2354-2377	6.1	8
48	Establishing a novel colorectal cancer predictive model based on unique gut microbial single nucleotide variant markers. *Gut Microbes*, **2021**, 13, 1-6	8.8	8
47	System-wide analysis of manganese starvation-induced metabolism in key elements of Lactobacillus plantarum. *RSC Advances*, **2017**, 7, 12959-12968	3.7	7
46	Preliminary safety assessment of a new Bacteroides fragilis isolate. *Food and Chemical Toxicology*, **2020**, 135, 110934	4.7	7
45	: A Candidate Probiotic with Excellent Fermentation Properties and Health Benefits. *Foods*, **2020**, 9,	4.9	7
44	Effects of acute oral lead exposure on the levels of essential elements of mice: a metallomics and dose-dependent study. *Journal of Trace Elements in Medicine and Biology*, **2020**, 62, 126624	4.1	7
43	A comparison of the inhibitory activities of Lactobacillus and Bifidobacterium against Penicillium expansum and an analysis of potential antifungal metabolites. *FEMS Microbiology Letters*, **2020**, 367,	2.9	7
42	The Protective Effect of Extracts Against Obesity and Inflammation by Regulating Free Fatty Acids Metabolism in Nonalcoholic Fatty Liver Disease. *Nutrients*, **2020**, 12,	6.7	7

41	Metabolomic analysis reveals the mechanism of aluminum cytotoxicity in HT-29 cells. *PeerJ*, **2019**, 7, e7524	3.1	6
40	A new method for evaluating the bioaccessibility of different foodborne forms of cadmium. *Toxicology Letters*, **2020**, 319, 31-39	4.4	6
39	Potential Role of Probiotics in Ameliorating Psoriasis by Modulating Gut Microbiota in Imiquimod-Induced Psoriasis-Like Mice. *Nutrients*, **2021**, 13,	6.7	6
38	Protective effects of different strains against lipopolysaccharide-induced acute intestinal injury, and their underlying functional genes.. *Journal of Advanced Research*, **2022**, 36, 27-37	13	6
37	Chinese gut microbiota and its associations with staple food type, ethnicity, and urbanization. *Npj Biofilms and Microbiomes*, **2021**, 7, 71	8.2	6
36	The synergistic effect of Lactobacillus plantarum CCFM242 and zinc on ulcerative colitis through modulating intestinal homeostasis. *Food and Function*, **2019**, 10, 6147-6156	6.1	5
35	Potential of gut microbiome for detection of autism spectrum disorder. *Microbial Pathogenesis*, **2020**, 149, 104568	3.8	5
34	Lactobacillus plantarum-Mediated Regulation of Dietary Aluminum Induces Changes in the Human Gut Microbiota: an In Vitro Colonic Fermentation Study. *Probiotics and Antimicrobial Proteins*, **2021**, 13, 398-412	5.5	5
33	Protective effects of a cocktail of lactic acid bacteria on microcystin-LR-induced hepatotoxicity and oxidative damage in BALB/c mice. *RSC Advances*, **2017**, 7, 20480-20487	3.7	4
32	Lactobacillus plantarum CCFM8610 Alleviates Irritable Bowel Syndrome and Prevents Gut Microbiota Dysbiosis: A Randomized, Double-Blind, Placebo-Controlled, Pilot Clinical Trial. *Engineering*, **2021**, 7, 376-385	9.7	4
31	Strains Improve Constipation Symptoms and Regulate Intestinal Flora in Mice. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 655258	5.9	4
30	Effects of Bacillus coagulans as an adjunct starter culture on yogurt quality and storage. *Journal of Dairy Science*, **2021**, 104, 7466-7479	4	4
29	In vitro and in vivo evaluation of Lactobacillus strains and comparative genomic analysis of Lactobacillus plantarum CGMCC12436 reveal candidates of colonise-related genes. *Food Research International*, **2019**, 119, 813-821	7	4
28	The role of mucin and oligosaccharides via cross-feeding activities by Bifidobacterium: A review. *International Journal of Biological Macromolecules*, **2021**, 167, 1329-1337	7.9	4
27	Niche-Specific Adaptive Evolution of Strains Isolated From Human Feces and Paocai. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 615876	5.9	4
26	Physiological Characteristics of Strains and Their Alleviation Effects against Inflammatory Bowel Disease. *Journal of Microbiology and Biotechnology*, **2021**, 31, 92-103	3.3	4
25	The roles of different strains in protecting against DSS-induced ulcerative colitis and related functional genes. *Food and Function*, **2021**,	6.1	4
24	Meta-analysis of randomized controlled trials of the effects of probiotics on type 2 diabetes in adults.. *Clinical Nutrition*, **2021**, 41, 365-373	5.9	3

23	Probiotic consumption influences universal adaptive mutations in indigenous human and mouse gut microbiota. *Communications Biology*, **2021**, 4, 1198	6.7	3
22	Relief of Cadmium-Induced Intestinal Motility Disorder in Mice by CCFM8610. *Frontiers in Immunology*, **2020**, 11, 619574	8.4	3
21	Synergistic Protective Effects of Different Dietary Supplements Against Type 2 Diabetes via Regulating Gut Microbiota. *Journal of Medicinal Food*, **2021**, 24, 319-330	2.8	3
20	A new Illumina MiSeq high-throughput sequencing-based method for evaluating the composition of the Bacteroides community in the intestine using the rpsD gene sequence. *Microbial Biotechnology*, **2021**, 14, 577-586	6.3	3
19	Strain-Specific Effects of on Hypercholesterolemic Rats and Potential Mechanisms. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
18	Evidence from comparative genomic analyses indicating that -mediated irritable bowel syndrome alleviation is mediated by conjugated linoleic acid synthesis. *Food and Function*, **2021**, 12, 1121-1134	6.1	3
17	The pelvis urinary microbiome in patients with kidney stones and clinical associations. *BMC Microbiology*, **2020**, 20, 336	4.5	2
16	Evaluation of Antioxidative Effects of with Fuzzy Synthetic Models. *Journal of Microbiology and Biotechnology*, **2018**, 28, 1052-1060	3.3	2
15	Protective Effects of CCFM8610 against Acute Toxicity Caused by Different Food-Derived Forms of Cadmium in Mice. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
14	Identification of the key characteristics of strains for the alleviation of ulcerative colitis. *Food and Function*, **2021**, 12, 3476-3492	6.1	2
13	Supernatants of and Strains Exhibited Antioxidative Effects on A7R5 Cells. *Microorganisms*, **2021**, 9,	4.9	2
12	The diversity and composition of the human gut lactic acid bacteria and bifidobacterial microbiota vary depending on age. *Applied Microbiology and Biotechnology*, **2021**, 105, 8427-8440	5.7	1
11	Gene-Phenotype Associations Involving Human-Residential Bifidobacteria (HRB) Reveal Significant Species- and Strain-Specificity in Carbohydrate Catabolism. *Microorganisms*, **2021**, 9,	4.9	1
10	Quantitative Detection of Strains in Feces Using Strain-Specific Primers. *Microorganisms*, **2021**, 9,	4.9	1
9	Phocaeicola faecalis sp. nov., a strictly anaerobic bacterial strain adapted to the human gut ecosystem. *Antonie Van Leeuwenhoek*, **2021**, 114, 1225-1235	2.1	1
8	Distinct Microbiomes of Gut and Saliva in Patients With Systemic Lupus Erythematous and Clinical Associations. *Frontiers in Immunology*, **2021**, 12, 626217	8.4	1
7	Integrated Phenotypic-Genotypic Analysis of from Different Niches. *Foods*, **2021**, 10,	4.9	1
6	An optimized culture medium to isolate strains from the human intestinal tract. *Food and Function*, **2021**, 12, 6740-6754	6.1	1

5	Behavioral disorders caused by nonylphenol and strategies for protection. *Chemosphere*, **2021**, 275, 129873	8.4	1
4	Human gut-derived B. longum subsp. longum strains protect against aging in a D-galactose-induced aging mouse model. *Microbiome*, **2021**, 9, 180	16.6	1
3	Dose-dependent effects of chronic lead toxicity in vivo: Focusing on trace elements and gut microbiota.. *Chemosphere*, **2022**, 134670	8.4	1
2	MLST analysis of genetic diversity of Bacillus coagulans strains to evaluate effects on constipation model. *Food Science and Human Wellness*, **2022**, 11, 815-827	8.3	0
1	Novel Thermostable Heparinase Based on the Genome of Bacteroides Isolated from Human Gut Microbiota. *Foods*, **2022**, 11, 1462	4.9	