

Zhennan Gu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

1,127
citations

19
h-index

32
g-index

55
ext. papers

1,410
ext. citations

4.9
avg, IF

4.19
L-index

#	Paper	IF	Citations
53	Genome characterization of the oleaginous fungus <i>Mortierella alpina</i> . <i>PLoS ONE</i> , 2011 , 6, e28319	3.7	102
52	Microbial Biogeography and Core Microbiota of the Rat Digestive Tract. <i>Scientific Reports</i> , 2017 , 8, 45840	4.9	92
51	Ribosomal protein-Mdm2-p53 pathway coordinates nutrient stress with lipid metabolism by regulating MCD and promoting fatty acid oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2414-22	11.5	76
50	Determining antioxidant activities of lactobacilli cell-free supernatants by cellular antioxidant assay: a comparison with traditional methods. <i>PLoS ONE</i> , 2015 , 10, e0119058	3.7	74
49	Identification of a critical determinant that enables efficient fatty acid synthesis in oleaginous fungi. <i>Scientific Reports</i> , 2015 , 5, 11247	4.9	69
48	Mechanisms of omega-3 polyunsaturated fatty acids in prostate cancer prevention. <i>BioMed Research International</i> , 2013 , 2013, 824563	3	61
47	n-3 Polyunsaturated Fatty Acids and their Role in Cancer Chemoprevention. <i>Current Pharmacology Reports</i> , 2015 , 1, 283-294	5.5	48
46	Polyunsaturated fatty acids affect the localization and signaling of PIP3/AKT in prostate cancer cells. <i>Carcinogenesis</i> , 2013 , 34, 1968-75	4.6	46
45	Δ fatty acid desaturases from microorganisms: structure, function, evolution, and biotechnological use. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 10255-62	5.7	37
44	Metabolic Engineering of <i>Mortierella alpina</i> for Enhanced Arachidonic Acid Production through the NADPH-Supplying Strategy. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 3280-3288	4.8	37
43	Application of a delta-6 desaturase with Δlinolenic acid preference on eicosapentaenoic acid production in <i>Mortierella alpina</i> . <i>Microbial Cell Factories</i> , 2016 , 15, 117	6.4	33
42	<i>Lactobacillus plantarum</i> ZS2058 produces CLA to ameliorate DSS-induced acute colitis in mice. <i>RSC Advances</i> , 2016 , 6, 14457-14464	3.7	29
41	Chemoprevention of Colorectal Cancer by Artocarpin, a Dietary Phytochemical from <i>Artocarpus heterophyllus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 3474-3480	5.7	28
40	Metabolic engineering of <i>Mortierella alpina</i> for arachidonic acid production with glycerol as carbon source. <i>Microbial Cell Factories</i> , 2015 , 14, 205	6.4	26
39	Molecular mechanism of substrate specificity for delta 6 desaturase from <i>Mortierella alpina</i> and <i>Micromonas pusilla</i> . <i>Journal of Lipid Research</i> , 2015 , 56, 2309-21	6.3	25
38	Dietary intake of n-3 PUFAs modifies the absorption, distribution and bioavailability of fatty acids in the mouse gastrointestinal tract. <i>Lipids in Health and Disease</i> , 2017 , 16, 10	4.4	23
37	Strain-specific properties of <i>Lactobacillus plantarum</i> for prevention of <i>Salmonella</i> infection. <i>Food and Function</i> , 2018 , 9, 3673-3682	6.1	23

36	Application of a $\Delta 6$ Desaturase with an Arachidonic Acid Preference to Eicosapentaenoic Acid Production in. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017 , 5, 89	5.8	20
35	Fatty acid metabolism: Implications for diet, genetic variation, and disease. <i>Food Bioscience</i> , 2013 , 4, 1-12	4.9	20
34	Comparative Proteome Analysis between High Lipid-Producing Strain <i>Mucor circinelloides</i> WJ11 and Low Lipid-Producing Strain CBS 277.49. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 5074-5082	5.7	19
33	A new potential secretion pathway for recombinant proteins in <i>Bacillus subtilis</i> . <i>Microbial Cell Factories</i> , 2015 , 14, 179	6.4	19
32	Dietary supplementation of linolenic acid induced conversion of n-3 LCPUFAs and reduced prostate cancer growth in a mouse model. <i>Lipids in Health and Disease</i> , 2017 , 16, 136	4.4	18
31	Resolvin D1 and D2 inhibit tumour growth and inflammation via modulating macrophage polarization. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 8045-8056	5.6	17
30	ZS2058 and GG Use Different Mechanisms to Prevent Infection. <i>Frontiers in Microbiology</i> , 2019 , 10, 299	5.7	16
29	Characterization of an Omega-3 Desaturase From and Application for Eicosapentaenoic Acid Production in. <i>Frontiers in Microbiology</i> , 2018 , 9, 1878	5.7	15
28	Clove extract functions as a natural fatty acid synthesis inhibitor and prevents obesity in a mouse model. <i>Food and Function</i> , 2017 , 8, 2847-2856	6.1	14
27	Cellular model to assess the antioxidant activity of lactobacilli. <i>RSC Advances</i> , 2015 , 5, 37626-37634	3.7	12
26	Distinct Gut Microbiota Induced by Different Fat-to-Sugar-Ratio High-Energy Diets Share Similar Pro-obesity Genetic and Metabolite Profiles in Prediabetic Mice. <i>MSystems</i> , 2019 , 4,	7.6	11
25	Complete genome sequence of <i>Lactobacillus plantarum</i> ZS2058, a probiotic strain with high conjugated linoleic acid production ability. <i>Journal of Biotechnology</i> , 2015 , 214, 212-3	3.7	8
24	Multiple mechanisms applied by <i>Lactobacillus pentosus</i> AT6 to mute the lethal effects of <i>Salmonella</i> in a mouse model. <i>Food and Function</i> , 2018 , 9, 2787-2795	6.1	8
23	Characterization of a fungal l-fucokinase involved in <i>Mortierella alpina</i> GDP-l-fucose salvage pathway. <i>Glycobiology</i> , 2016 , 26, 880-887	5.8	8
22	Dietary Supplementation of n-3 LCPUFAs Prevents Salmonellosis in a Murine Model. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 128-137	5.7	8
21	Molecular mechanism of substrate preference for $\Delta 6$ fatty acid desaturase from <i>Mortierella alpina</i> by mutational analysis and molecular docking. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 9679-9689	5.7	8
20	Role of $\Delta 6$ and on Lipid Accumulation in. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 4245-4251	5.7	7
19	The Protective Effect of Extracts Against Obesity and Inflammation by Regulating Free Fatty Acids Metabolism in Nonalcoholic Fatty Liver Disease. <i>Nutrients</i> , 2020 , 12,	6.7	7

18	An efficient strategy for screening polyunsaturated fatty acid-producing oleaginous filamentous fungi from soil. <i>Journal of Microbiological Methods</i> , 2019 , 158, 80-85	2.8	6
17	Role of dihydrofolate reductase in tetrahydrobiopterin biosynthesis and lipid metabolism in the oleaginous fungus <i>Mortierella alpina</i> . <i>Microbiology (United Kingdom)</i> , 2016 , 162, 1544-1553	2.9	6
16	Substrate specificity of <i>Mortierella alpina</i> Δ -III fatty acid desaturase and its value for the production of omega-9 MUFA. <i>European Journal of Lipid Science and Technology</i> , 2016 , 118, 753-760	3	6
15	Preventive effects of <i>Lactobacillus plantarum</i> ST-III against <i>Salmonella</i> infection. <i>LWT - Food Science and Technology</i> , 2019 , 105, 200-205	5.4	6
14	Tetrahydrobiopterin Plays a Functionally Significant Role in Lipogenesis in the Oleaginous Fungus. <i>Frontiers in Microbiology</i> , 2020 , 11, 250	5.7	5
13	Potential of gut microbiome for detection of autism spectrum disorder. <i>Microbial Pathogenesis</i> , 2020 , 149, 104568	3.8	5
12	Protective effects of a cocktail of lactic acid bacteria on microcystin-LR-induced hepatotoxicity and oxidative damage in BALB/c mice. <i>RSC Advances</i> , 2017 , 7, 20480-20487	3.7	4
11	Endogenous omega-3 long-chain fatty acid biosynthesis from alpha-linolenic acid is affected by substrate levels, gene expression, and product inhibition. <i>RSC Advances</i> , 2017 , 7, 40946-40951	3.7	4
10	Isolated from Different Hosts Modifies the Intestinal Microbiota and Displays Differential Metabolic and Immunomodulatory Properties in Mice Fed a High-Fat Diet. <i>Nutrients</i> , 2021 , 13,	6.7	4
9	Characterization and molecular docking of new Δ 7 fatty acid desaturase genes from and .. <i>RSC Advances</i> , 2019 , 9, 6871-6880	3.7	3
8	Synergistic Effect of Eugenol and Probiotic Zs2058 Against Infection in C57bl/6 Mice. <i>Nutrients</i> , 2020 , 12,	6.7	3
7	Dietary supplementation with low-dose xylooligosaccharide promotes the anti- <i>Salmonella</i> activity of probiotic <i>Lactiplantibacillus plantarum</i> ZS2058 in a murine model.. <i>Food Research International</i> , 2022 , 151, 110858	7	3
6	The role of MTHFDL in mediating intracellular lipogenesis in oleaginous. <i>Microbiology (United Kingdom)</i> , 2020 , 166, 617-623	2.9	2
5	Application of high EPA-producing in laying hen feed for egg DHA accumulation.. <i>RSC Advances</i> , 2018 , 8, 39005-39012	3.7	2
4	Evaluation of methylations and external/internal standard quantification of lipids using gas chromatography-mass spectrometry. <i>Analytical Methods</i> , 2017 , 9, 419-426	3.2	1
3	Targeting the Gut Microbiota for Remediating Obesity and Related Metabolic Disorders. <i>Journal of Nutrition</i> , 2021 , 151, 1703-1716	4.1	1
2	Biochemical characterization of an isoform of GDP-D-mannose-4,6-dehydratase from <i>Mortierella alpina</i> . <i>Biotechnology Letters</i> , 2016 , 38, 1761-8	3	1
1	Production of GDP-L-fucose from exogenous fucose through the salvage pathway in <i>Mortierella alpina</i> . <i>RSC Advances</i> , 2016 , 6, 46308-46316	3.7	

