

H Chen

List of Publications by Year in Descending Order

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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.

107
papers

2,048
citations

26
h-index

40
g-index

114
ext. papers

2,574
ext. citations

4.7
avg, IF

4.9
L-index

#	Paper	IF	Citations
107	Autophagy Improves ARA-Rich TAG Accumulation in by Regulating Resource Allocation.. <i>Microbiology Spectrum</i> , 2022 , e0130021	8.9	2
106	Research progress on conjugated linoleic acid bio-conversion in Bifidobacterium.. <i>International Journal of Food Microbiology</i> , 2022 , 369, 109593	5.8	1
105	The relationship between amino acid and lipid metabolism in oleaginous eukaryotic microorganism.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 1	5.7	0
104	Consensus mutagenesis and computational simulation provide insight into the desaturation catalytic mechanism for delta 6 fatty acid desaturase. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 586, 74-80	3.4	1
103	SNF1 Modulated Glucose Uptake and the Balance between Polyunsaturated Fatty Acids and Carbohydrates in. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 13849-13858	5.7	1
102	Ameliorates Dextran Sulfate Sodium-Induced Colitis by Producing Conjugated Linoleic Acid, Protecting Intestinal Mechanical Barrier, Restoring Unbalanced Gut Microbiota, and Regulating the Toll-Like Receptor-4/Nuclear Factor- κ B Signaling Pathway. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 14593-14608	5.7	3
101	Characterization of NAD/NADP-Specific Isocitrate Dehydrogenases From Oleaginous Fungus Involved in Lipid Accumulation. <i>Frontiers in Nutrition</i> , 2021 , 8, 746342	6.2	0
100	Role of the mitochondrial citrate-oxoglutarate carrier in lipid accumulation in the oleaginous fungus <i>Mortierella alpina</i> . <i>Biotechnology Letters</i> , 2021 , 43, 1455-1466	3	3
99	Carbohydrate analysis of <i>Mortierella alpina</i> by colorimetry and HPLC-ELSD to reveal accumulation differences of sugar and lipid. <i>Biotechnology Letters</i> , 2021 , 43, 1289-1301	3	4
98	Linoleic acid induces different metabolic modes in two <i>Bifidobacterium breve</i> strains with different conjugated linoleic acid-producing abilities. <i>LWT - Food Science and Technology</i> , 2021 , 142, 110974	5.4	2
97	Lipid metabolism research in oleaginous fungus <i>Mortierella alpina</i> : Current progress and future prospects. <i>Biotechnology Advances</i> , 2021 , 107794	17.8	8
96	Metabolomics analysis reveals the role of oxygen control in the nitrogen limitation induced lipid accumulation in <i>Mortierella alpina</i> . <i>Journal of Biotechnology</i> , 2021 , 325, 325-333	3.7	7
95	Linoleate Isomerase Complex Contributes to Metabolism and Remission of DSS-Induced Colitis in Mice of ZS2058. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 8160-8171	5.7	
94	Role of beta-isopropylmalate dehydrogenase in lipid biosynthesis of the oleaginous fungus <i>Mortierella alpina</i> . <i>Fungal Genetics and Biology</i> , 2021 , 152, 103572	3.9	6
93	Advances in improving the biotechnological application of oleaginous fungus <i>Mortierella alpina</i> . <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 6275-6289	5.7	2
92	The role of phenylalanine hydroxylase in lipogenesis in the oleaginous fungus. <i>Microbiology (United Kingdom)</i> , 2021 , 167,	2.9	1
91	Linoleic Acid Triggered a Metabolomic Stress Condition in Three Species of Bifidobacteria Characterized by Different Conjugated Linoleic Acid-Producing Abilities. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 11311-11321	5.7	1

90	The Role of Glyceraldehyde-3-Phosphate Dehydrogenases in NADPH Supply in the Oleaginous Filamentous Fungus. <i>Frontiers in Microbiology</i> , 2020 , 11, 818	5.7	7
89	Two-stage pH control combined with oxygen-enriched air strategies for the highly efficient production of EPA by <i>Mortierella alpina</i> CCFM698 with fed-batch fermentation. <i>Bioprocess and Biosystems Engineering</i> , 2020 , 43, 1725-1733	3.7	7
88	Synergistic Effect of Eugenol and Probiotic Zs2058 Against Infection in C57bl/6 Mice. <i>Nutrients</i> , 2020 , 12,	6.7	3
87	Role of 6 and on Lipid Accumulation in. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 4245-4251	5.7	7
86	Antiproliferation Activity and Mechanism of c9, t11, c15-CLNA and t9, t11, c15-CLNA from ZS2058 on Colon Cancer Cells. <i>Molecules</i> , 2020 , 25,	4.8	6
85	Tetrahydrobiopterin Plays a Functionally Significant Role in Lipogenesis in the Oleaginous Fungus. <i>Frontiers in Microbiology</i> , 2020 , 11, 250	5.7	5
84	c9, t11, c15-CLNA and t9, t11, c15-CLNA from ZS2058 Ameliorate Dextran Sodium Sulfate-Induced Colitis in Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 3758-3769	5.7	9
83	Time-resolved multi-omics analysis reveals the role of nutrient stress-induced resource reallocation for TAG accumulation in oleaginous fungus. <i>Biotechnology for Biofuels</i> , 2020 , 13, 116	7.8	14
82	Effects of <i>Agrobacterium tumefaciens</i> strain types on the <i>Agrobacterium</i> -mediated transformation efficiency of filamentous fungus <i>Mortierella alpina</i> . <i>Letters in Applied Microbiology</i> , 2020 , 70, 388-393	2.9	5
81	The role of MTHFDL in mediating intracellular lipogenesis in oleaginous. <i>Microbiology (United Kingdom)</i> , 2020 , 166, 617-623	2.9	2
80	Genetic determinates for conjugated linolenic acid production in <i>Lactobacillus plantarum</i> ZS2058. <i>Journal of Applied Microbiology</i> , 2020 , 128, 191-201	4.7	5
79	Characteristics of bifidobacterial conjugated fatty acid and hydroxy fatty acid production and its potential application in fermented milk. <i>LWT - Food Science and Technology</i> , 2020 , 120, 108940	5.4	5
78	Δ fatty acid desaturases in polyunsaturated fatty acid biosynthesis: insights into the evolution, function with substrate specificities and biotechnological use. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 9947-9963	5.7	4
77	Improved Lipogenesis in by Abolishing the Mediated Energy-Saving Mode under Low Glucose. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 10787-10798	5.7	3
76	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
75	Application of the <i>cbh1</i> promoter in <i>Mortierella alpina</i> and optimization of induction conditions. <i>Letters in Applied Microbiology</i> , 2020 , 71, 164-170	2.9	2
74	Ultra Performance Liquid Chromatography-Q Exactive Orbitrap/Mass Spectrometry-Based Lipidomics Reveals the Influence of Nitrogen Sources on Lipid Biosynthesis of. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 10984-10993	5.7	10
73	Role of 10-hydroxy-cis-12-octadecenic acid in transforming linoleic acid into conjugated linoleic acid by bifidobacteria. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 7151-7160	5.7	9

72	Evaluation of metabolome sample preparation and extraction methodologies for oleaginous filamentous fungi <i>Mortierella alpina</i> . <i>Metabolomics</i> , 2019 , 15, 50	4.7	18
71	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
70	Potential Functions of the Gastrointestinal Microbiome Inhabiting the Length of the Rat Digest Tract. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	3
69	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
68	Role of Adenosine Monophosphate Deaminase during Fatty Acid Accumulation in Oleaginous Fungus. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 9551-9559	5.7	13
67	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
66	The role of acyl-CoA thioesterase ACOT8I in mediating intracellular lipid metabolism in oleaginous fungus <i>Mortierella alpina</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018 , 45, 281-291	4.2	3
65	<i>Bifidobacterium breve</i> CCFM683 could ameliorate DSS-induced colitis in mice primarily via conjugated linoleic acid production and gut microbiota modulation. <i>Journal of Functional Foods</i> , 2018 , 49, 61-72	5.1	39
64	Optimization of <i>Agrobacterium tumefaciens</i> -mediated transformation method of oleaginous filamentous fungus <i>Mortierella alpina</i> on co-cultivation materials choice. <i>Journal of Microbiological Methods</i> , 2018 , 152, 179-185	2.8	9
63	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
62	Optimization of the quenching and extraction procedures for a metabolomic analysis of <i>Lactobacillus plantarum</i> . <i>Analytical Biochemistry</i> , 2018 , 557, 62-68	3.1	10
61	Substrate specificity and membrane topologies of the iron-containing Δ^7 and Δ^8 desaturases from <i>Mortierella alpina</i> . <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 211-223	5.7	7
60	Application of high EPA-producing in laying hen feed for egg DHA accumulation.. <i>RSC Advances</i> , 2018 , 8, 39005-39012	3.7	2
59	Molecular mechanism of substrate preference for Δ^8 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
58	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
57	Extract of <i>Syzygium aromaticum</i> suppress eEF1A protein expression and fungal growth. <i>Journal of Applied Microbiology</i> , 2017 , 123, 80-91	4.7	4
56	Generation of lycopene-overproducing strains of the fungus <i>Mucor circinelloides</i> reveals important aspects of lycopene formation and accumulation. <i>Biotechnology Letters</i> , 2017 , 39, 439-446	3	7
55	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

54	Microbial Biogeography and Core Microbiota of the Rat Digestive Tract. <i>Scientific Reports</i> , 2017 , 8, 45840-9	4.9	92
53	Molecular tools for gene manipulation in filamentous fungi. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 8063-8075	5.7	38
52	Dietary supplementation of Δ 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
51	Application of a Δ 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
50	Bacterial conjugated linoleic acid production and their applications. <i>Progress in Lipid Research</i> , 2017 , 68, 26-36	14.3	41
49	Characterization of the triple-component linoleic acid isomerase in <i>Lactobacillus plantarum</i> ZS2058 by genetic manipulation. <i>Journal of Applied Microbiology</i> , 2017 , 123, 1263-1273	4.7	14
48	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
47	Increased fatty acid accumulation following overexpression of glycerol-3-phosphate dehydrogenase and suppression of Δ oxidation in oleaginous fungus <i>Mortierella alpina</i> . <i>European Journal of Lipid Science and Technology</i> , 2017 , 119, 1600113	3	4
46	Mining bifidobacteria from the neonatal gastrointestinal tract for conjugated linolenic acid production. <i>Bioengineered</i> , 2017 , 8, 232-238	5.7	13
45	Lipase genes in <i>Mucor circinelloides</i> : identification, sub-cellular location, phylogenetic analysis and expression profiling during growth and lipid accumulation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 1467-80	4.2	14
44	A new regulatory mechanism controlling carotenogenesis in the fungus <i>Mucor circinelloides</i> as a target to generate Δ carotene over-producing strains by genetic engineering. <i>Microbial Cell Factories</i> , 2016 , 15, 99	6.4	25
43	Production of trans-10,cis-12-conjugated linoleic acid using permeabilized whole-cell biocatalyst of <i>Yarrowia lipolytica</i> . <i>Biotechnology Letters</i> , 2016 , 38, 1917-1922	3	4
42	Application of a Δ 6 desaturase with Δ linolenic acid preference on eicosapentaenoic acid production in <i>Mortierella alpina</i> . <i>Microbial Cell Factories</i> , 2016 , 15, 117	6.4	33
41	Bioinformatical analysis and preliminary study of the role of lipase in lipid metabolism in <i>Mucor circinelloides</i> . <i>RSC Advances</i> , 2016 , 6, 60673-60682	3.7	9
40	Role of malate transporter in lipid accumulation of oleaginous fungus <i>Mucor circinelloides</i> . <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 1297-1305	5.7	32
39	<i>Mortierella alpina</i> feed supplementation enriched hen eggs with DHA and AA. <i>RSC Advances</i> , 2016 , 6, 1694-1699	3.7	5
38	<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
37	Proteomics analysis of high lipid-producing strain <i>Mucor circinelloides</i> WJ11: an explanation for the mechanism of lipid accumulation at the proteomic level. <i>Microbial Cell Factories</i> , 2016 , 15, 35	6.4	40

36	Characterization of an fungal l-fucokinase involved in <i>Mortierella alpina</i> GDP-l-fucose salvage pathway. <i>Glycobiology</i> , 2016 , 26, 880-887	5.8	8
35	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
34	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
33	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
32	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	
31	The role of a xylose isomerase pathway in the conversion of xylose to lipid in <i>Mucor circinelloides</i> . <i>RSC Advances</i> , 2016 , 6, 77944-77952	3.7	7
30	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
29	n-3 Polyunsaturated Fatty Acids and their Role in Cancer Chemoprevention. <i>Current Pharmacology Reports</i> , 2015 , 1, 283-294	5.5	48
28	Identification of a critical determinant that enables efficient fatty acid synthesis in oleaginous fungi. <i>Scientific Reports</i> , 2015 , 5, 11247	4.9	69
27	Review of the roles of conjugated linoleic acid in health and disease. <i>Journal of Functional Foods</i> , 2015 , 15, 314-325	5.1	137
26	Reconstruction and analysis of a genome-scale metabolic model of the oleaginous fungus <i>Mortierella alpina</i> . <i>BMC Systems Biology</i> , 2015 , 9, 1	3.5	76
25	Role of pentose phosphate pathway in lipid accumulation of oleaginous fungus <i>Mucor circinelloides</i> . <i>RSC Advances</i> , 2015 , 5, 97658-97664	3.7	27
24	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
23	Production of conjugated linoleic acid by heterologous expression of linoleic acid isomerase in oleaginous fungus <i>Mortierella alpina</i> . <i>Biotechnology Letters</i> , 2015 , 37, 1983-92	3	10
22	(13)C-metabolic flux analysis of lipid accumulation in the oleaginous fungus <i>Mucor circinelloides</i> . <i>Bioresource Technology</i> , 2015 , 197, 23-9	11	36
21	A new potential secretion pathway for recombinant proteins in <i>Bacillus subtilis</i> . <i>Microbial Cell Factories</i> , 2015 , 14, 179	6.4	19
20	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
19	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

18	Comparison of Biochemical Activities between High and Low Lipid-Producing Strains of <i>Mucor circinelloides</i> : An Explanation for the High Oleaginicacy of Strain WJ11. <i>PLoS ONE</i> , 2015 , 10, e0128396	3.7	54
17	Complete Genome Sequence of a High Lipid-Producing Strain of <i>Mucor circinelloides</i> WJ11 and Comparative Genome Analysis with a Low Lipid-Producing Strain CBS 277.49. <i>PLoS ONE</i> , 2015 , 10, e0137343	3.7	37
16	Enhanced lipid accumulation in the yeast <i>Yarrowia lipolytica</i> by over-expression of ATP:citrate lyase from <i>Mus musculus</i> . <i>Journal of Biotechnology</i> , 2014 , 192 Pt A, 78-84	3.7	66
15	Effects of 20 standard amino acids on the growth, total fatty acids production, and linolenic acid yield in <i>Mucor circinelloides</i> . <i>Current Microbiology</i> , 2014 , 69, 899-908	2.4	19
14	Increased fatty acid unsaturation and production of arachidonic acid by homologous over-expression of the mitochondrial malic enzyme in <i>Mortierella alpina</i> . <i>Biotechnology Letters</i> , 2014 , 36, 1827-34	3	32
13	Role of malic enzyme during fatty acid synthesis in the oleaginous fungus <i>Mortierella alpina</i> . <i>Applied and Environmental Microbiology</i> , 2014 , 80, 2672-8	4.8	71
12	Synthesis of conjugated linoleic acid by the linoleate isomerase complex in food-derived lactobacilli. <i>Journal of Applied Microbiology</i> , 2014 , 117, 430-9	4.7	49
11	Regulatory properties of malic enzyme in the oleaginous yeast, <i>Yarrowia lipolytica</i> , and its non-involvement in lipid accumulation. <i>Biotechnology Letters</i> , 2013 , 35, 2091-8	3	70
10	Fatty acid metabolism: Implications for diet, genetic variation, and disease. <i>Food Bioscience</i> , 2013 , 4, 1-12.9		20
9	β fatty acid desaturases from microorganisms: structure, function, evolution, and biotechnological use. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 10255-62	5.7	37
8	Myosin-cross-reactive antigens from four different lactic acid bacteria are fatty acid hydratases. <i>Biotechnology Letters</i> , 2013 , 35, 75-81	3	50
7	Optimizing lactose hydrolysis by computer-guided modification of the catalytic site of a wild-type enzyme. <i>Molecular Diversity</i> , 2013 , 17, 371-82	3.1	9
6	Expression and purification of integral membrane fatty acid desaturases. <i>PLoS ONE</i> , 2013 , 8, e58139	3.7	20
5	Cloning, expression, and identification of a novel class IIa bacteriocin in the <i>Escherichia coli</i> cell-free protein expression system. <i>Biotechnology Letters</i> , 2012 , 34, 359-64	3	3
4	Cloning and heterologous expression of a bacteriocin sakacin P from <i>Lactobacillus sakei</i> in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2012 , 94, 1061-8	5.7	18
3	Genome characterization of the oleaginous fungus <i>Mortierella alpina</i> . <i>PLoS ONE</i> , 2011 , 6, e28319	3.7	102
2	Biochemical characterization of the tetrahydrobiopterin synthesis pathway in the oleaginous fungus <i>Mortierella alpina</i> . <i>Microbiology (United Kingdom)</i> , 2011 , 157, 3059-3070	2.9	20
1	Changes in microbial community during Chinese traditional soybean paste fermentation. <i>International Journal of Food Science and Technology</i> , 2009 , 44, 2526-2530	3.8	28

