

Jin Liu

List of Publications by Year in descending order

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90
papers

4,906
citations

76196

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98622

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93
all docs

93
docs citations

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times ranked

4409
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential lipid and fatty acid profiles of photoautotrophic and heterotrophic <i>Chlorella zofingiensis</i> : Assessment of algal oils for biodiesel production. <i>Bioresource Technology</i> , 2011, 102, 106-110.	4.8	363
2	<i>Chlorella zofingiensis</i> as an Alternative Microalgal Producer of Astaxanthin: Biology and Industrial Potential. <i>Marine Drugs</i> , 2014, 12, 3487-3515.	2.2	239
3	Lipid Production from <i>Nannochloropsis</i> . <i>Marine Drugs</i> , 2016, 14, 61.	2.2	228
4	Bio-mitigation of carbon dioxide using microalgal systems: Advances and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 1163-1175.	8.2	215
5	Genetic engineering of the Calvin cycle toward enhanced photosynthetic CO ₂ fixation in microalgae. <i>Biotechnology for Biofuels</i> , 2017, 10, 229.	6.2	137
6	Molasses-based growth and production of oil and astaxanthin by <i>Chlorella zofingiensis</i> . <i>Bioresource Technology</i> , 2012, 107, 393-398.	4.8	130
7	Metabolic engineering of tomato for high-yield production of astaxanthin. <i>Metabolic Engineering</i> , 2013, 17, 59-67.	3.6	129
8	Production potential of <i>Chlorella zofingiensis</i> as a feedstock for biodiesel. <i>Bioresource Technology</i> , 2010, 101, 8658-8663.	4.8	122
9	A comparative study between fungal pellet- and spore-assisted microalgae harvesting methods for algae bioflocculation. <i>Bioresource Technology</i> , 2018, 259, 181-190.	4.8	120
10	Genetic engineering of the green alga <i>Chlorella zofingiensis</i> : a modified norflurazon-resistant phytoene desaturase gene as a dominant selectable marker. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5069-5079.	1.7	114
11	Simultaneous production of triacylglycerol and high-value carotenoids by the astaxanthin-producing oleaginous green microalga <i>Chlorella zofingiensis</i> . <i>Bioresource Technology</i> , 2016, 214, 319-327.	4.8	114
12	Characterization of type 2 diacylglycerol acyltransferases in <i>Chlamydomonas reinhardtii</i> reveals their distinct substrate specificities and functions in triacylglycerol biosynthesis. <i>Plant Journal</i> , 2016, 86, 3-19.	2.8	111
13	Producing Designer Oils in Industrial Microalgae by Rational Modulation of Co-evolving Type-2 Diacylglycerol Acyltransferases. <i>Molecular Plant</i> , 2017, 10, 1523-1539.	3.9	111
14	Development of a Unique Small Molecule Modulator of CXCR4. <i>PLoS ONE</i> , 2012, 7, e34038.	1.1	104
15	A type-I diacylglycerol acyltransferase modulates triacylglycerol biosynthesis and fatty acid composition in the oleaginous microalga, <i>Nannochloropsis oceanica</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 174.	6.2	103
16	Engineering of an endogenous phytoene desaturase gene as a dominant selectable marker for <i>Chlamydomonas reinhardtii</i> transformation and enhanced biosynthesis of carotenoids. <i>Process Biochemistry</i> , 2013, 48, 788-795.	1.8	98
17	Screening of Diatom Strains and Characterization of <i>Cyclotella cryptica</i> as A Potential Fucoxanthin Producer. <i>Marine Drugs</i> , 2016, 14, 125.	2.2	91
18	Functional characterization of various algal carotenoid ketolases reveals that ketolating zeaxanthin efficiently is essential for high production of astaxanthin in transgenic <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2011, 62, 3659-3669.	2.4	85

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19	Sesamol Enhances Cell Growth and the Biosynthesis and Accumulation of Docosahexaenoic Acid in the Microalga <i>Cryptocodinium cohnii</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5640-5645.	2.4	83
20	Physiological and biochemical changes reveal stress-associated photosynthetic carbon partitioning into triacylglycerol in the oleaginous marine alga <i>Nannochloropsis oculata</i> . <i>Algal Research</i> , 2016, 16, 28-35.	2.4	83
21	The synergistic energy and carbon metabolism under mixotrophic cultivation reveals the coordination between photosynthesis and aerobic respiration in <i>Chlorella zofingiensis</i> . <i>Algal Research</i> , 2017, 25, 109-116.	2.4	82
22	<i>Chlorella</i> species as hosts for genetic engineering and expression of heterologous proteins: Progress, challenge and perspective. <i>Biotechnology Journal</i> , 2016, 11, 1244-1261.	1.8	77
23	Utilization of cane molasses towards cost-saving astaxanthin production by a <i>Chlorella zofingiensis</i> mutant. <i>Journal of Applied Phycology</i> , 2013, 25, 1447-1456.	1.5	74
24	Screening and characterization of <i>Isochrysis</i> strains and optimization of culture conditions for docosahexaenoic acid production. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 4785-4798.	1.7	69
25	Novel insights into salinity-induced lipogenesis and carotenogenesis in the oleaginous astaxanthin-producing alga <i>Chromochloris zofingiensis</i> : a multi-omics study. <i>Biotechnology for Biofuels</i> , 2020, 13, 73.	6.2	62
26	ISOLATION AND CHARACTERIZATION OF THE PHYTOENE DESATURASE GENE AS A POTENTIAL SELECTIVE MARKER FOR GENETIC ENGINEERING OF THE ASTAXANTHIN-PRODUCING GREEN ALGA <i>CHLORELLA ZOFINGIENSIS</i> (CHLOROPHYTA). <i>Journal of Phycology</i> , 2008, 44, 684-690.	1.0	61
27	The crosstalk between astaxanthin, fatty acids and reactive oxygen species in heterotrophic <i>Chlorella zofingiensis</i> . <i>Algal Research</i> , 2016, 19, 178-183.	2.4	61
28	Inhibitory effects of microalgal extracts on the formation of advanced glycation endproducts (AGEs). <i>Food Chemistry</i> , 2010, 120, 261-267.	4.2	59
29	Biology and Industrial Applications of <i>Chlorella</i> : Advances and Prospects. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014, 153, 1-35.	0.6	58
30	Multiomics analysis reveals a distinct mechanism of oleaginousness in the emerging model alga <i>Chromochloris zofingiensis</i> . <i>Plant Journal</i> , 2019, 98, 1060-1077.	2.8	55
31	Stearoyl-acyl carrier protein desaturase gene from the oleaginous microalga <i>Chlorella zofingiensis</i> : cloning, characterization and transcriptional analysis. <i>Planta</i> , 2012, 236, 1665-1676.	1.6	51
32	Proteomics Analysis of Lipid Droplets from the Oleaginous Alga <i>Chromochloris zofingiensis</i> Reveals Novel Proteins for Lipid Metabolism. <i>Genomics, Proteomics and Bioinformatics</i> , 2019, 17, 260-272.	3.0	50
33	Astaxanthin Is Ketolated from Zeaxanthin Independent of Fatty Acid Synthesis in <i>Chromochloris zofingiensis</i> . <i>Plant Physiology</i> , 2020, 183, 883-897.	2.3	50
34	One amino acid substitution in phytoene desaturase makes <i>Chlorella zofingiensis</i> resistant to norflurazon and enhances the biosynthesis of astaxanthin. <i>Planta</i> , 2010, 232, 61-67.	1.6	49
35	Screening of <i>Isochrysis</i> strains for simultaneous production of docosahexaenoic acid and fucoxanthin. <i>Algal Research</i> , 2019, 41, 101545.	2.4	49
36	Antiaging Effects of Astaxanthin-Rich Alga <i>Haematococcus pluvialis</i> on Fruit Flies under Oxidative Stress. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 7800-7804.	2.4	48

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37	Characterization of type I and type II diacylglycerol acyltransferases from the emerging model alga <i>Chlorella zofingiensis</i> reveals their functional complementarity and engineering potential. <i>Biotechnology for Biofuels</i> , 2019, 12, 28.	6.2	45
38	High light boosts salinity stress-induced biosynthesis of astaxanthin and lipids in the green alga <i>Chromochloris zofingiensis</i> . <i>Algal Research</i> , 2020, 50, 101976.	2.4	45
39	Enlargement of High Density Lipoprotein in Mice via Liver X Receptor Activation Requires Apolipoprotein E and Is Abolished by Cholesteryl Ester Transfer Protein Expression. <i>Journal of Biological Chemistry</i> , 2003, 278, 49072-49078.	1.6	43
40	Astaxanthin is responsible for antiglycoxidative properties of microalga <i>Chlorella zofingiensis</i> . <i>Food Chemistry</i> , 2011, 126, 1629-1635.	4.2	43
41	Protective actions of microalgae against endogenous and exogenous advanced glycation endproducts (AGEs) in human retinal pigment epithelial cells. <i>Food and Function</i> , 2011, 2, 251.	2.1	42
42	Screening and characterization of oleaginous <i>Chlorella</i> strains and exploration of photoautotrophic <i>Chlorella protothecoides</i> for oil production. <i>Bioresource Technology</i> , 2015, 184, 53-62.	4.8	42
43	Cloning and selection of carotenoid ketolase genes for the engineering of high-yield astaxanthin in plants. <i>Planta</i> , 2012, 236, 691-699.	1.6	41
44	Light attenuates lipid accumulation while enhancing cell proliferation and starch synthesis in the glucose-fed oleaginous microalga <i>Chlorella zofingiensis</i> . <i>Scientific Reports</i> , 2015, 5, 14936.	1.6	41
45	RNAi-mediated silencing of a pyruvate dehydrogenase kinase enhances triacylglycerol biosynthesis in the oleaginous marine alga <i>Nannochloropsis salina</i> . <i>Scientific Reports</i> , 2017, 7, 11485.	1.6	40
46	Histone tales: lysine methylation, a protagonist in <i>Arabidopsis</i> development. <i>Journal of Experimental Botany</i> , 2020, 71, 793-807.	2.4	40
47	The Nightshade Proteinase Inhibitor IIb Gene is Constitutively Expressed in Glandular Trichomes. <i>Plant and Cell Physiology</i> , 2006, 47, 1274-1284.	1.5	39
48	Highly-efficient enzymatic conversion of crude algal oils into biodiesel. <i>Bioresource Technology</i> , 2014, 172, 143-149.	4.8	39
49	Time-resolved carotenoid profiling and transcriptomic analysis reveal mechanism of carotenogenesis for astaxanthin synthesis in the oleaginous green alga <i>Chromochloris zofingiensis</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 287.	6.2	39
50	Characterization and subcellular localization of histone deacetylases and their roles in response to abiotic stresses in soybean. <i>BMC Plant Biology</i> , 2018, 18, 226.	1.6	38
51	Light Elicits Astaxanthin Biosynthesis and Accumulation in the Fermented Ultrahigh-Density <i>Chlorella zofingiensis</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 5579-5586.	2.4	38
52	Nectin-like molecule 1 is a protein 4.1N associated protein and recruits protein 4.1N from cytoplasm to the plasma membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1669, 142-154.	1.4	35
53	Nafion®-polyfurfuryl alcohol nanocomposite membranes with low methanol permeation. <i>Chemical Communications</i> , 2004, , 728-729.	2.2	32
54	Development of a stable genetic system for <i>Chlorella vulgaris</i> —A promising green alga for CO ₂ biomitigation. <i>Algal Research</i> , 2015, 12, 134-141.	2.4	31

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55	The oleaginous astaxanthin-producing alga <i>Chromochloris zofingiensis</i> : potential from production to an emerging model for studying lipid metabolism and carotenogenesis. <i>Biotechnology for Biofuels</i> , 2021, 14, 119.	6.2	29
56	Comparative evaluation of immune response after laparoscopic and open total mesorectal excisions with anal sphincter preservation in patients with rectal cancer. <i>World Journal of Gastroenterology</i> , 2003, 9, 2690.	1.4	28
57	Novel Insights into Phosphorus Deprivation Boosted Lipid Synthesis in the Marine Alga <i>Nannochloropsis oceanica</i> without Compromising Biomass Production. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 11488-11502.	2.4	27
58	Light enhanced the accumulation of total fatty acids (TFA) and docosahexaenoic acid (DHA) in a newly isolated heterotrophic microalga <i>Cryptocodinium</i> sp. SUN. <i>Bioresource Technology</i> , 2017, 228, 227-234.	4.8	26
59	Petrogenesis of Permo-Triassic intrusive rocks in Northern Liaoning Province, NE China: implications for the closure of the eastern Paleo-Asian Ocean. <i>International Geology Review</i> , 2020, 62, 754-780.	1.1	22
60	Lipid production is more than doubled by manipulating a diacylglycerol acyltransferase in algae. <i>GCB Bioenergy</i> , 2021, 13, 185-200.	2.5	21
61	Microalgae as Feedstocks for Biodiesel Production. , 0, , .		19
62	DHA-rich marine microalga <i>Schizochytrium mangrovei</i> possesses anti-ageing effects on <i>Drosophila melanogaster</i> . <i>Journal of Functional Foods</i> , 2013, 5, 888-896.	1.6	18
63	A conserved MYB transcription factor is involved in regulating lipid metabolic pathways for oil biosynthesis in green algae. <i>New Phytologist</i> , 2022, 235, 576-594.	3.5	17
64	Single-tube colony PCR for DNA amplification and transformant screening of oleaginous microalgae. <i>Journal of Applied Phycology</i> , 2014, 26, 1719-1726.	1.5	16
65	Heterotrophic Production of Algal Oils. , 2014, , 111-142.		15
66	Functional Characterization of Long-Chain Acyl-CoA Synthetase Gene Family from the Oleaginous Alga <i>Chromochloris zofingiensis</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4473-4484.	2.4	15
67	Rapid Characterization of Fatty Acids in Oleaginous Microalgae by Near-Infrared Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2015, 16, 7045-7056.	1.8	14
68	Screening of Isochrysis Strains and Utilization of a Two-Stage Outdoor Cultivation Strategy for Algal Biomass and Lipid Production. <i>Applied Biochemistry and Biotechnology</i> , 2018, 185, 1100-1117.	1.4	14
69	Δ^6 Fatty Acid Elongase is Involved in Eicosapentaenoic Acid Biosynthesis Via the Δ^6 Pathway in the Marine Alga <i>Nannochloropsis oceanica</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 9837-9848.	2.4	14
70	Long-chain acyl-CoA synthetases activate fatty acids for lipid synthesis, remodeling and energy production in <i>Chlamydomonas</i> . <i>New Phytologist</i> , 2022, 233, 823-837.	3.5	14
71	PDAT regulates PE as transient carbon sink alternative to triacylglycerol in <i>Nannochloropsis</i> . <i>Plant Physiology</i> , 2022, 189, 1345-1362.	2.3	14
72	Metabolic engineering of the oleaginous alga <i>Nannochloropsis</i> for enriching eicosapentaenoic acid in triacylglycerol by combined pulling and pushing strategies. <i>Metabolic Engineering</i> , 2022, 69, 163-174.	3.6	13

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73	A simple and reproducible non-radiolabeled in vitro assay for recombinant acyltransferases involved in triacylglycerol biosynthesis. <i>Journal of Applied Phycology</i> , 2017, 29, 323-333.	1.5	11
74	A bZIP transcription factor is involved in regulating lipid and pigment metabolisms in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , 2021, 59, 102450.	2.4	11
75	Kinematics and structural evolution of the Anziling dome-and-keel architecture in east China: Evidence of Neoproterozoic vertical tectonism in the North China Craton. <i>Bulletin of the Geological Society of America</i> , 0, , .	1.6	11
76	In Situ Enzymatic Conversion of <i>Nannochloropsis oceanica</i> IMET1 Biomass into Fatty Acid Methyl Esters. <i>Bioenergy Research</i> , 2017, 10, 438-448.	2.2	10
77	Characterization of fatty acid desaturases reveals stress-induced synthesis of C18 unsaturated fatty acids enriched in triacylglycerol in the oleaginous alga <i>Chromochloris zofingiensis</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 184.	6.2	7
78	Algae for biofuels. , 2016, , 673-698.		6
79	Batch Cultivation for Astaxanthin Analysis Using the Green Microalga <i>Chlorella zofingiensis</i> Under Multitrophic Growth Conditions. <i>Methods in Molecular Biology</i> , 2018, 1852, 97-106.	0.4	5
80	Exploring an isolate of the oleaginous alga <i>Micractinium inermum</i> for lipid production: molecular characterization and physicochemical analysis under multiple growth conditions. <i>Journal of Applied Phycology</i> , 2019, 31, 1035-1046.	1.5	5
81	Physicochemical and gene expression analyses reveal differential responses of the marine oleaginous alga <i>Nannochloropsis salina</i> under different lipid-induction conditions. <i>Journal of Applied Phycology</i> , 2018, 30, 909-919.	1.5	4
82	Zircon U-Pb geochronology and Sr-Nd-Pb-Hf isotopic constraints on the timing and origin of the Early Cretaceous igneous rocks in the Yongxin gold deposit in the Lesser Xing'an Range, NE China. <i>Geological Journal</i> , 2020, 55, 2684-2703.	0.6	4
83	Biofuel from Microalgae. , 2011, , 127-133.		3
84	Physiological and Biochemical Changes Reveal Differential Patterns of Docosahexaenoic Acid Partitioning in Two Marine Algal Strains of <i>Isochrysis</i> . <i>Marine Drugs</i> , 2017, 15, 357.	2.2	3
85	A New Discovery of ~3.0 Ga Tonalitic Gneiss in Northern Liaoning Province, China. <i>Acta Geologica Sinica</i> , 2018, 92, 2043-2045.	0.8	1
86	A New Discovery of Cretaceous (~125 Ma) Migmatite in Liaodong Peninsula, North China Craton. <i>Acta Geologica Sinica</i> , 2019, 93, 1969-1970.	0.8	1
87	Newly identified Jurassic-Cretaceous migmatites in the Liaodong Peninsula: unravelling a Mesozoic anatectic event related to the lithospheric thinning of the North China Craton. <i>Geological Magazine</i> , 2021, 158, 425-441.	0.9	1
88	Lipid metabolism and metabolic engineering of eukaryotic microalgae. <i>Advances in Bioenergy</i> , 2021, 6, 1-35.	0.5	1
89	Patterns of mouse reticulon 3 mRNA and protein expression in the mouse central nervous system. <i>Science Bulletin</i> , 2003, 48, 2044.	1.7	0
90	Metabolic engineering for enhanced astaxanthin biosynthesis in <i>Chlorella zofingiensis</i> (chlorophyta). <i>Journal of Biotechnology</i> , 2008, 136, S572.	1.9	0