

# Jin Liu

## List of Publications by Year in descending order

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90  
papers

4,906  
citations

76196

40  
h-index

98622

67  
g-index

93  
all docs

93  
docs citations

93  
times ranked

4409  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Lipid production is more than doubled by manipulating a diacylglycerol acyltransferase in algae. <i>GCB Bioenergy</i> , 2021, 13, 185-200.	2.5	21
7	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
8	$\Delta^6$ Fatty Acid Elongase is Involved in Eicosapentaenoic Acid Biosynthesis Via the $\Delta^6$ Pathway in the Marine Alga <i>Nannochloropsis oceanica</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 9837-9848.	2.4	14
9	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
10	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
11	Lipid metabolism and metabolic engineering of eukaryotic microalgae. <i>Advances in Bioenergy</i> , 2021, 6, 1-35.	0.5	1
12	Histone tails: lysine methylation, a protagonist in <i>Arabidopsis</i> development. <i>Journal of Experimental Botany</i> , 2020, 71, 793-807.	2.4	40
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	Screening of Isochrysis strains for simultaneous production of docosahexaenoic acid and fucoxanthin. <i>Algal Research</i> , 2019, 41, 101545.	2.4	49
22	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
23	Multimiomics 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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	Genetic engineering of the Calvin cycle toward enhanced photosynthetic CO <sub>2</sub> fixation in microalgae. <i>Biotechnology for Biofuels</i> , 2017, 10, 229.	6.2	137
44	Algae for biofuels. , 2016, , 673-698.		6
45	Lipid Production from <i>Nannochloropsis</i> . <i>Marine Drugs</i> , 2016, 14, 61.	2.2	228
46	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
47	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
48	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
49	<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
50	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
51	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
52	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
53	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
54	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

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55	Development of a stable genetic system for <i>Chlorella vulgaris</i> —A promising green alga for CO <sub>2</sub> biomitigation. <i>Algal Research</i> , 2015, 12, 134-141.	2.4	31
56	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
57	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
58	Heterotrophic Production of Algal Oils. , 2014, , 111-142.		15
59	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
60	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
61	Highly-efficient enzymatic conversion of crude algal oils into biodiesel. <i>Bioresource Technology</i> , 2014, 172, 143-149.	4.8	39
62	<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
63	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
64	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
65	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
66	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
67	Metabolic engineering of tomato for high-yield production of astaxanthin. <i>Metabolic Engineering</i> , 2013, 17, 59-67.	3.6	129
68	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
69	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
70	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
71	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
72	Development of a Unique Small Molecule Modulator of CXCR4. <i>PLoS ONE</i> , 2012, 7, e34038.	1.1	104

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73	Functional characterization of various algal carotenoid ketolases reveals that ketolating zeaxanthin efficiently is essential for high production of astaxanthin in transgenic Arabidopsis. Journal of Experimental Botany, 2011, 62, 3659-3669.	2.4	85
74	Biofuel from Microalgae. , 2011, , 127-133.		3
75	Protective actions of microalgae against endogenous and exogenous advanced glycation endproducts (AGEs) in human retinal pigment epithelial cells. Food and Function, 2011, 2, 251.	2.1	42
76	Astaxanthin is responsible for antiglycoxidative properties of microalga Chlorella zofingiensis. Food Chemistry, 2011, 126, 1629-1635.	4.2	43
77	Differential lipid and fatty acid profiles of photoautotrophic and heterotrophic Chlorella zofingiensis: Assessment of algal oils for biodiesel production. Bioresource Technology, 2011, 102, 106-110.	4.8	363
78	One amino acid substitution in phytoene desaturase makes Chlorella zofingiensis resistant to norflurazon and enhances the biosynthesis of astaxanthin. Planta, 2010, 232, 61-67.	1.6	49
79	Production potential of Chlorella zofingiensis as a feedstock for biodiesel. Bioresource Technology, 2010, 101, 8658-8663.	4.8	122
80	Inhibitory effects of microalgal extracts on the formation of advanced glycation endproducts (AGEs). Food Chemistry, 2010, 120, 261-267.	4.2	59
81	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). Journal of Phycology, 2008, 44, 684-690.	1.0	61
82	Metabolic engineering for enhanced astaxanthin biosynthesis in Chlorella zofingiensis (chlorophyta). Journal of Biotechnology, 2008, 136, S572.	1.9	0
83	The Nightshade Proteinase Inhibitor IIb Gene is Constitutively Expressed in Glandular Trichomes. Plant and Cell Physiology, 2006, 47, 1274-1284.	1.5	39
84	Nectin-like molecule 1 is a protein 4.1N associated protein and recruits protein 4.1N from cytoplasm to the plasma membrane. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1669, 142-154.	1.4	35
85	Nafion® polyfurfuryl alcohol nanocomposite membranes with low methanol permeation. Chemical Communications, 2004, , 728-729.	2.2	32
86	Patterns of mouse reticulon 3 mRNA and protein expression in the mouse central nervous system. Science Bulletin, 2003, 48, 2044.	1.7	0
87	Enlargement of High Density Lipoprotein in Mice via Liver X Receptor Activation Requires Apolipoprotein E and Is Abolished by Cholesteryl Ester Transfer Protein Expression. Journal of Biological Chemistry, 2003, 278, 49072-49078.	1.6	43
88	Comparative evaluation of immune response after laparoscopic and open total mesorectal excisions with anal sphincter preservation in patients with rectal cancer. World Journal of Gastroenterology, 2003, 9, 2690.	1.4	28
89	Microalgae as Feedstocks for Biodiesel Production. , 0, , .		19
90	Kinematics and structural evolution of the Anziling dome-and-keel architecture in east China: Evidence of Neoproterozoic vertical tectonism in the North China Craton. Bulletin of the Geological Society of America, 0, , .	1.6	11