

# Zheng Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,699  
citations

186209

28  
h-index

223716

46  
g-index

49  
all docs

49  
docs citations

49  
times ranked

3078  
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	Food waste as nutrient source in heterotrophic microalgae cultivation. <i>Bioresource Technology</i> , 2013, 137, 139-146.	4.8	279
3	<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
4	Valorisation of bakery waste for succinic acid production. <i>Green Chemistry</i> , 2013, 15, 690.	4.6	157
5	Microalgal carotenoids: beneficial effects and potential in human health. <i>Food and Function</i> , 2014, 5, 413.	2.1	145
6	Production potential of <i>Chlorella zofingiensis</i> as a feedstock for biodiesel. <i>Bioresource Technology</i> , 2010, 101, 8658-8663.	4.8	122
7	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
8	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
9	Mixed Food Waste as Renewable Feedstock in Succinic Acid Fermentation. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 1822-1833.	1.4	73
10	Sustainable lipid and lutein production from <i>Chlorella</i> mixotrophic fermentation by food waste hydrolysate. <i>Journal of Hazardous Materials</i> , 2020, 400, 123258.	6.5	67
11	Feruloylated oligosaccharides: Structure, metabolism and function. <i>Journal of Functional Foods</i> , 2014, 7, 90-100.	1.6	66
12	Acrolein scavengers: Reactivity, mechanism and impact on health. <i>Molecular Nutrition and Food Research</i> , 2011, 55, 1375-1390.	1.5	64
13	Inhibitory effects of microalgal extracts on the formation of advanced glycation endproducts (AGEs). <i>Food Chemistry</i> , 2010, 120, 261-267.	4.2	59
14	Beneficial Effects of Cinnamon Proanthocyanidins on the Formation of Specific Advanced Glycation Endproducts and Methylglyoxal-Induced Impairment on Glucose Consumption. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 6692-6696.	2.4	55
15	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
16	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
17	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
18	Screening of <i>Isochrysis</i> strains for simultaneous production of docosahexaenoic acid and fucoxanthin. <i>Algal Research</i> , 2019, 41, 101545.	2.4	49

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19	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
20	Cultivation of oleaginous microalga <i>Scenedesmus obliquus</i> coupled with wastewater treatment for enhanced biomass and lipid production. <i>Biochemical Engineering Journal</i> , 2019, 148, 162-169.	1.8	47
21	Mutation Breeding of Extracellular Polysaccharide-Producing Microalga <i>Cryptocodinium cohnii</i> by a Novel Mutagenesis with Atmospheric and Room Temperature Plasma. <i>International Journal of Molecular Sciences</i> , 2015, 16, 8201-8212.	1.8	44
22	Astaxanthin is responsible for antiglycoxidative properties of microalga <i>Chlorella zofingiensis</i> . <i>Food Chemistry</i> , 2011, 126, 1629-1635.	4.2	43
23	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
24	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
25	Microalgae as a Source of Lutein: Chemistry, Biosynthesis, and Carotenogenesis. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 153, 37-58.	0.6	40
26	Fermentative Polyhydroxybutyrate Production from a Novel Feedstock Derived from Bakery Waste. <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	38
27	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
28	Identification and characterization of three genes encoding acyl-CoA: diacylglycerol acyltransferase (DGAT) from the microalga <i>Myrmezia incisa</i> Reisigl. <i>Algal Research</i> , 2015, 12, 280-288.	2.4	32
29	Cynarin-Rich Sunflower ( <i>Helianthus annuus</i> ) Sprouts Possess Both Antiglycative and Antioxidant Activities. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 3260-3265.	2.4	27
30	Synergistic bioconversion of lipids and carotenoids from food waste by <i>Dunaliella salina</i> with fulvic acid via a two-stage cultivation strategy. <i>Energy Conversion and Management</i> , 2021, 234, 113908.	4.4	24
31	In vitro attenuation of acrolein-induced toxicity by phloretin, a phenolic compound from apple. <i>Food Chemistry</i> , 2012, 135, 1762-1768.	4.2	23
32	A $\Delta^9$ Fatty Acid Desaturase Gene in the Microalga <i>Myrmezia incisa</i> Reisigl: Cloning and Functional Analysis. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1143.	1.8	18
33	Heterotrophic Production of Algal Oils. , 2014, , 111-142.		15
34	Screening of <i>Isochrysis</i> 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
35	Oleaginous Microalgae from Dairy Farm Wastewater for Biodiesel Production: Isolation, Characterization and Mass Cultivation. <i>Applied Biochemistry and Biotechnology</i> , 2018, 184, 524-537.	1.4	11
36	Carotenoid-rich microalgae promote growth and health conditions of <i>Artemia</i> nauplii. <i>Aquaculture</i> , 2022, 546, 737289.	1.7	11

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37	Isolation and identification of <i>Choricystis minor</i> Fott and mass cultivation for oil production. <i>Algal Research</i> , 2017, 25, 142-148.	2.4	9
38	Integration of Waste Valorization for Sustainable Production of Chemicals and Materials via Algal Cultivation. <i>Topics in Current Chemistry</i> , 2017, 375, 89.	3.0	9
39	Role of Mitochondria in Regulating Lutein and Chlorophyll Biosynthesis in <i>Chlorella pyrenoidosa</i> under Heterotrophic Conditions. <i>Marine Drugs</i> , 2018, 16, 354.	2.2	9
40	Novel insights into type 2 diacylglycerol acyltransferases in microalga <i>Myrmecea incisa</i> . <i>Journal of Applied Phycology</i> , 2021, 33, 25-35.	1.5	9
41	Comparison between two isoforms of glycerol-3-phosphate acyltransferase in microalga <i>Myrmecea incisa</i> : Subcellular localization and role in triacylglycerol synthesis. <i>Algal Research</i> , 2021, 54, 102172.	2.4	7
42	Rheological properties of concentrated slurries of harvested, incubated and ruptured <i>Nannochloropsis</i> sp. cells. <i>BMC Chemical Engineering</i> , 2019, 1, .	3.4	6
43	nondestructive detection of kiwifruit textural characteristic based on near infrared hyperspectral imaging technology. <i>International Journal of Food Properties</i> , 2022, 25, 1697-1713.	1.3	6
44	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
45	Development and characterization of 12 polymorphic microsatellite markers in <i>Sargassum vachellianum</i> . <i>Conservation Genetics Resources</i> , 2015, 7, 203-205.	0.4	1
46	Heterotrophic properties of <i>Myrmecea incisa</i> and strategies for enhanced arachidonic acid production. <i>Biochemical Engineering Journal</i> , 2022, 181, 108399.	1.8	1
47	Sustainable conversion of food waste into high-value products through microalgae-based biorefinery. , 2022, , 125-152.		0
48	Microalgae Technology. <i>RSC Green Chemistry</i> , 2014, , 79-92.	0.0	0