

Chengwu Zhang

List of Publications by Year in descending order

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44
papers

2,584
citations

236925

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docs citations

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times ranked

2909
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#	ARTICLE	IF	CITATIONS
1	A high throughput Nile red method for quantitative measurement of neutral lipids in microalgae. <i>Journal of Microbiological Methods</i> , 2009, 77, 41-47.	1.6	591
2	Evaluation of flocculation induced by pH increase for harvesting microalgae and reuse of flocculated medium. <i>Bioresource Technology</i> , 2012, 110, 496-502.	9.6	315
3	Production, Characterization, and Antioxidant Activity of Fucoxanthin from the Marine Diatom <i>Odontella aurita</i> . <i>Marine Drugs</i> , 2013, 11, 2667-2681.	4.6	293
4	Freshwater microalgae harvested via flocculation induced by pH decrease. <i>Biotechnology for Biofuels</i> , 2013, 6, 98.	6.2	166
5	Preliminary Characterization, Antioxidant Properties and Production of Chrysolaminarin from Marine Diatom <i>Odontella aurita</i> . <i>Marine Drugs</i> , 2014, 12, 4883-4897.	4.6	89
6	Co-production of lipids, eicosapentaenoic acid, fucoxanthin, and chrysolaminarin by <i>Phaeodactylum tricornutum</i> cultured in a flat-plate photobioreactor under varying nitrogen conditions. <i>Journal of Ocean University of China</i> , 2017, 16, 916-924.	1.2	82
7	An integrated biorefinery process: Stepwise extraction of fucoxanthin, eicosapentaenoic acid and chrysolaminarin from the same <i>Phaeodactylum tricornutum</i> biomass. <i>Algal Research</i> , 2018, 32, 193-200.	4.6	79
8	Morphology, growth, biochemical composition and photosynthetic performance of <i>Chlorella vulgaris</i> (Trebouxiophyceae) under low and high nitrogen supplies. <i>Algal Research</i> , 2016, 16, 481-491.	4.6	59
9	Characterization of cell structural change, growth, lipid accumulation, and pigment profile of a novel oleaginous microalga, <i>Vischeria stellata</i> (Eustigmatophyceae), cultured with different initial nitrate supplies. <i>Journal of Applied Phycology</i> , 2016, 28, 821-830.	2.8	54
10	Evaluation of several flocculants for flocculating microalgae. <i>Bioresource Technology</i> , 2015, 197, 495-501.	9.6	53
11	A novel strategy for the hyper-production of astaxanthin from the newly isolated microalga <i>Haematococcus pluvialis</i> JNU35. <i>Algal Research</i> , 2019, 39, 101466.	4.6	53
12	Production of fucoxanthin, chrysolaminarin, and eicosapentaenoic acid by <i>Odontella aurita</i> under different nitrogen supply regimes. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 723-729.	2.2	50
13	Effective flocculation of target microalgae with self-flocculating microalgae induced by pH decrease. <i>Bioresource Technology</i> , 2014, 167, 367-375.	9.6	45
14	Profiling of carotenoids in six microalgae (Eustigmatophyceae) and assessment of their β -carotene productions in bubble column photobioreactor. <i>Biotechnology Letters</i> , 2012, 34, 2049-2053.	2.2	41
15	A novel potential source of β -carotene: <i>Eustigmatos cf. polyphem</i> (Eustigmatophyceae) and pilot β -carotene production in bubble column and flat panel photobioreactors. <i>Bioresource Technology</i> , 2012, 117, 257-263.	9.6	41
16	Evaluation of oleaginous eustigmatophycean microalgae as potential biorefinery feedstock for the production of palmitoleic acid and biodiesel. <i>Bioresource Technology</i> , 2018, 270, 30-37.	9.6	40
17	Highly-efficient enzymatic conversion of crude algal oils into biodiesel. <i>Bioresource Technology</i> , 2014, 172, 143-149.	9.6	39
18	Optimum Production Conditions, Purification, Identification, and Antioxidant Activity of Violaxanthin from Microalga <i>Eustigmatos cf. polyphem</i> (Eustigmatophyceae). <i>Marine Drugs</i> , 2018, 16, 190.	4.6	38

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19	Accurate quantification of astaxanthin from <i>Haematococcus</i> crude extract spectrophotometrically. <i>Chinese Journal of Oceanology and Limnology</i> , 2012, 30, 627-637.	0.7	37
20	Integrated biorefinery strategy for tofu wastewater biotransformation and biomass valorization with the filamentous microalga <i>Tribonema minus</i> . <i>Bioresource Technology</i> , 2019, 292, 121938.	9.6	37
21	Effects of nutrients and light intensity on the growth and biochemical composition of a marine microalga <i>Odontella aurita</i> . <i>Chinese Journal of Oceanology and Limnology</i> , 2013, 31, 1163-1173.	0.7	36
22	Responses in growth, lipid accumulation, and fatty acid composition of four oleaginous microalgae to different nitrogen sources and concentrations. <i>Chinese Journal of Oceanology and Limnology</i> , 2013, 31, 1306-1314.	0.7	35
23	Comparative transcriptome analysis of a long-time span two-step culture process reveals a potential mechanism for astaxanthin and biomass hyper-accumulation in <i>Haematococcus pluvialis</i> JNU35. <i>Biotechnology for Biofuels</i> , 2019, 12, 18.	6.2	35
24	Identification of harmful protozoa in outdoor cultivation of <i>Chlorella</i> and the use of ultrasonication to control contamination. <i>Algal Research</i> , 2018, 31, 298-310.	4.6	32
25	Effects of temperature, salinity, light intensity, and pH on the eicosapentaenoic acid production of <i>Pinguicoccus pyrenoidosus</i> . <i>Journal of Ocean University of China</i> , 2012, 11, 181-186.	1.2	27
26	Biomass, lipid accumulation kinetics, and the transcriptome of heterotrophic oleaginous microalga <i>Tetrademus bernardii</i> under different carbon and nitrogen sources. <i>Biotechnology for Biofuels</i> , 2021, 14, 4.	6.2	22
27	Morphological and spectrometric analyses of lipids accumulation in a novel oleaginous microalga, <i>Eustigmatos cf. polyphem</i> (Eustigmatophyceae). <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1125-1130.	3.4	21
28	Biological stoichiometry of oleaginous microalgal lipid synthesis: The role of N:P supply ratios and growth rate on microalgal elemental and biochemical composition. <i>Algal Research</i> , 2018, 32, 353-361.	4.6	21
29	De Novo Transcriptomic Analysis of an Oleaginous Microalga: Pathway Description and Gene Discovery for Production of Next-Generation Biofuels. <i>PLoS ONE</i> , 2012, 7, e35142.	2.5	19
30	Resourceful treatment of cane sugar industry wastewater by <i>Tribonema minus</i> towards the production of valuable biomass. <i>Bioresource Technology</i> , 2020, 316, 123902.	9.6	19
31	Combined effects of different nitrogen sources and levels and light intensities on growth and fatty acid and lipid production of oleaginous eustigmatophycean microalga <i>Eustigmatos cf. polyphem</i> . <i>Journal of Applied Phycology</i> , 2018, 30, 215-229.	2.8	16
32	Maximizing fucoxanthin production in <i>Odontella aurita</i> by optimizing the ratio of red and blue light-emitting diodes in an auto-controlled internally illuminated photobioreactor. <i>Bioresource Technology</i> , 2022, 344, 126260.	9.6	16
33	Comprehensive utilization of the filamentous oleaginous microalga <i>Tribonema utriculosum</i> for the production of lipids and chrysolaminarin in a biorefinery concept. <i>Algal Research</i> , 2020, 50, 101973.	4.6	11
34	In Situ Enzymatic Conversion of <i>Nannochloropsis oceanica</i> IMET1 Biomass into Fatty Acid Methyl Esters. <i>Bioenergy Research</i> , 2017, 10, 438-448.	3.9	10
35	Evaluation and Transcriptome Analysis of the Novel Oleaginous Microalga <i>Lobosphaera bisecta</i> (Trebouxiophyceae, Chlorophyta) for Arachidonic Acid Production. <i>Marine Drugs</i> , 2020, 18, 229.	4.6	9
36	Assessment of a Novel Oleaginous Filamentous Microalga <i>Klebsormidium</i> sp. Lgx80 (Streptophyta, Klebsormidiales) for Biomass and Lipid Production. <i>Journal of Phycology</i> , 2021, 57, 1151-1166.	2.3	9

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37	Evaluation of a novel oleaginous filamentous green alga, <i>Barranca yajiagengensis</i> (Chlorophyta), Tj ETQq1 1 0.784314 rgBT /Overlock	4.6	7
38	Bilateral and simultaneous accumulation of lipid and biomass in the novel oleaginous green microalga <i>Tetrademus bernardii</i> under mixotrophic growth. <i>Algal Research</i> , 2019, 37, 64-73.	4.6	7
39	<i>Trachydiscus guangdongensis</i> sp. nov., a new member of Eustigmatophyceae (Stramenopiles) isolated from China: morphology, phylogeny, fatty acid profile, pigment, and cell wall composition. <i>Hydrobiologia</i> , 2019, 835, 37-47.	2.0	6
40	Physicochemical Characteristics of Cellulose Nanocrystals Derived from the Residue of Filamentous Microalga <i>Tribonema utriculosum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 2430-2442.	2.9	6
41	Transcriptomic analysis unravels the modulating mechanisms of the biomass and value-added bioproducts accumulation by light spectrum in <i>Eustigmatos</i> cf. <i>Polyphem</i> (Eustigmatophyceae). <i>Bioresource Technology</i> , 2021, 338, 125523.	9.6	6
42	The complete mitochondrial genome of an oleaginous microalga <i>vischeria stellata</i> strain SAC 33.83 (Eustigmatophyceae). <i>Mitochondrial DNA Part B: Resources</i> , 2019, 4, 301-302.	0.4	4
43	Evaluation of antioxidant and antibacterial activities of lipid extracts from <i>Eustigmatos</i> cf. <i>polyphem</i> (Eustigmatophyceae) and preliminary identification of bioactive compound. <i>Algal Research</i> , 2021, 59, 102446.	4.6	4
44	The complete chloroplast genome of an edaphic oleaginous microalga <i>Vischeria stellata</i> SAC 33.83 (Eustigmatophyceae). <i>Mitochondrial DNA Part B: Resources</i> , 2019, 4, 1041-1043.	0.4	3