

# Quanyu Zhao

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,886  
citations

279798

23  
h-index

265206

42  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1906  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microalgae for the production of lipid and carotenoids: a review with focus on stress regulation and adaptation. <i>Biotechnology for Biofuels</i> , 2018, 11, 272.	6.2	281
2	Improving high carbon dioxide tolerance and carbon dioxide fixation capability of <i>Chlorella</i> sp. by adaptive laboratory evolution. <i>Bioresource Technology</i> , 2015, 185, 269-275.	9.6	115
3	Improving carbohydrate and starch accumulation in <i>Chlorella</i> sp. AE10 by a novel two-stage process with cell dilution. <i>Biotechnology for Biofuels</i> , 2017, 10, 75.	6.2	104
4	Current states and challenges of salt-affected soil remediation by cyanobacteria. <i>Science of the Total Environment</i> , 2019, 669, 258-272.	8.0	104
5	Strain improvement of <i>Chlorella</i> sp. for phenol biodegradation by adaptive laboratory evolution. <i>Bioresource Technology</i> , 2016, 205, 264-268.	9.6	96
6	Adaptive evolution of microalgae <i>Schizochytrium</i> sp. under high salinity stress to alleviate oxidative damage and improve lipid biosynthesis. <i>Bioresource Technology</i> , 2018, 267, 438-444.	9.6	93
7	Enhancement of lipid accumulation in microalgae by metabolic engineering. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 552-566.	2.4	84
8	Adaptive evolution and carbon dioxide fixation of <i>Chlorella</i> sp. in simulated flue gas. <i>Science of the Total Environment</i> , 2019, 650, 2931-2938.	8.0	78
9	Comparative study of wastewater treatment and nutrient recycle via activated sludge, microalgae and combination systems. <i>Bioresource Technology</i> , 2016, 211, 1-5.	9.6	74
10	Exploring stress tolerance mechanism of evolved freshwater strain <i>Chlorella</i> sp. S30 under 30 g/L salt. <i>Bioresource Technology</i> , 2018, 250, 495-504.	9.6	60
11	Comparative Metabolomic Analysis of the Green Microalga <i>Chlorella sorokiniana</i> Cultivated in the Single Culture and a Consortium with Bacteria for Wastewater Remediation. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 1062-1075.	2.9	53
12	Comparative transcriptomic analysis reveals phenol tolerance mechanism of evolved <i>Chlorella</i> strain. <i>Bioresource Technology</i> , 2017, 227, 266-272.	9.6	52
13	Enhancement of lipid production in low-starch mutants <i>Chlamydomonas reinhardtii</i> by adaptive laboratory evolution. <i>Bioresource Technology</i> , 2013, 147, 499-507.	9.6	50
14	Effect of light quality on growth rate, carbohydrate accumulation, fatty acid profile and lutein biosynthesis of <i>Chlorella</i> sp. AE10. <i>Bioresource Technology</i> , 2019, 291, 121783.	9.6	49
15	Enhancing fermentation wastewater treatment by co-culture of microalgae with volatile fatty acid- and alcohol-degrading bacteria. <i>Algal Research</i> , 2018, 31, 31-39.	4.6	46
16	Effects of three antibiotics on growth and antioxidant response of <i>Chlorella pyrenoidosa</i> and <i>Anabaena cylindrica</i> . <i>Ecotoxicology and Environmental Safety</i> , 2021, 211, 111954.	6.0	46
17	Optimizing the formation of in vitro sponge primmorphs from the Chinese sponge <i>Stylotella agminata</i> (Ridley). <i>Journal of Biotechnology</i> , 2003, 100, 161-168.	3.8	41
18	Integration of enzyme activities into metabolic flux distributions by elementary mode analysis. <i>BMC Systems Biology</i> , 2007, 1, 31.	3.0	39

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19	Application of the CRISPR/Cas system for genome editing in microalgae. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3239-3248.	3.6	37
20	Application of chemicals for enhancing lipid production in microalgae-a short review. <i>Bioresource Technology</i> , 2019, 293, 122135.	9.6	32
21	Extended CADLIVE: a novel graphical notation for design of biochemical network maps and computational pathway analysis. <i>Nucleic Acids Research</i> , 2007, 35, e134-e134.	14.5	31
22	Enhancing Carbohydrate Productivity of <i>Chlorella</i> sp. AE10 in Semi-continuous Cultivation and Unraveling the Mechanism by Flow Cytometry. <i>Applied Biochemistry and Biotechnology</i> , 2018, 185, 419-433.	2.9	29
23	Maximum entropy decomposition of flux distribution at steady state to elementary modes. <i>Journal of Bioscience and Bioengineering</i> , 2009, 107, 84-89.	2.2	28
24	Biopotentials of marine sponges from China oceans: past and future. <i>New Biotechnology</i> , 2003, 20, 413-419.	2.7	23
25	Adaptive Evolution Improves Algal Strains for Environmental Remediation. <i>Trends in Biotechnology</i> , 2021, 39, 112-115.	9.3	23
26	Adaptive evolution of microalgae <i>Schizochytrium</i> sp. under high temperature for efficient production of docosahexaenoic acid. <i>Algal Research</i> , 2021, 54, 102212.	4.6	22
27	Use of maximum entropy principle with Lagrange multipliers extends the feasibility of elementary mode analysis. <i>Journal of Bioscience and Bioengineering</i> , 2010, 110, 254-261.	2.2	21
28	Characterization of Co-Cultivation of Cyanobacteria on Growth, Productions of Polysaccharides and Extracellular Proteins, Nitrogenase Activity, and Photosynthetic Activity. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 340-349.	2.9	21
29	Formulation of a Basal Medium for Primary Cell Culture of the Marine Sponge <i>Hymeniacidon perleve</i> . <i>Biotechnology Progress</i> , 2008, 21, 1008-1012.	2.6	19
30	Genetic modification of flux for flux prediction of mutants. <i>Bioinformatics</i> , 2009, 25, 1702-1708.	4.1	18
31	High-strength fermentable wastewater reclamation through a sequential process of anaerobic fermentation followed by microalgae cultivation. <i>Bioresource Technology</i> , 2017, 227, 317-323.	9.6	18
32	Exergy analysis for docosahexaenoic acid production by fermentation and strain improvement by adaptive laboratory evolution for <i>Schizochytrium</i> sp.. <i>Bioresource Technology</i> , 2020, 298, 122562.	9.6	17
33	Lutein extraction by imidazolium-based ionic liquid-water mixture from dried and fresh <i>Chlorella</i> sp.. <i>Algal Research</i> , 2021, 60, 102528.	4.6	13
34	Enhancing growth and lipid productivity in <i>Dunaliella salina</i> under high light intensity and nitrogen limited conditions. <i>Bioresource Technology Reports</i> , 2019, 7, 100211.	2.7	12
35	Exploration of phenol tolerance mechanism through antioxidative responses of an evolved strain, <i>Chlorella</i> sp. L5. <i>Journal of Applied Phycology</i> , 2018, 30, 2379-2385.	2.8	10
36	Attachment of Marine Sponge Cells of <i>Hymeniacidon perleve</i> on Microcarriers. <i>Biotechnology Progress</i> , 2003, 19, 1569-1573.	2.6	8

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37	Growth Performance and Antioxidative Response of <i>Chlorella pyrenoidosa</i> , <i>Dunaliella salina</i> , and <i>Anabaena cylindrica</i> to Four Kinds of Ionic Liquids. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 1945-1966.	2.9	8
38	Exploring kinetics, removal mechanism and possible transformation products of tigecycline by <i>Chlorella pyrenoidosa</i> . <i>Science of the Total Environment</i> , 2022, 817, 152988.	8.0	8
39	Enhanced roles of biochar and organic fertilizer in microalgae for soil carbon sink. <i>Biodegradation</i> , 2018, 29, 313-321.	3.0	7
40	Kinetic model for effects of simulated flue gas onto growth profiles of <i>Chlorella</i> sp. AE10 and <i>Chlorella</i> sp. Cv. <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 783-789.	3.1	7
41	Identification of active pathways of <i>Chlorella protothecoides</i> by elementary mode analysis integrated with fluxomic data. <i>Algal Research</i> , 2020, 45, 101767.	4.6	5
42	Strategies for enhancing eicosapentaenoic acid production: From fermentation to metabolic engineering. <i>Algal Research</i> , 2020, 51, 102038.	4.6	3
43	Microalgae cultivation. <i>Advances in Bioenergy</i> , 2021, 6, 37-115.	1.3	1
44	Prediction of flux distribution of mutants by enzyme control fluxes with maximum entropy principal. <i>Journal of Biotechnology</i> , 2008, 136, S72.	3.8	0