

Wang Xiang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9452176/publications.pdf>

Version: 2024-02-01

38
papers

1,126
citations

361296

20
h-index

414303

32
g-index

39
all docs

39
docs citations

39
times ranked

797
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence of plastidial triacylglycerol synthesis and the potential regulatory role of AGPAT in the model diatom <i>Phaeodactylum tricoratum</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 97.	6.2	115
2	Molecular characterization of a glycerol-3-phosphate acyltransferase reveals key features essential for triacylglycerol production in <i>Phaeodactylum tricoratum</i> . <i>Biotechnology for Biofuels</i> , 2016, 9, 60.	6.2	101
3	Identification of a malonyl CoA-acyl carrier protein transacylase and its regulatory role in fatty acid biosynthesis in oleaginous microalga <i>Nannochloropsis oceanica</i> . <i>Biotechnology and Applied Biochemistry</i> , 2017, 64, 620-626.	1.4	73
4	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
5	Dual expression of plastidial GPAT1 and LPAT1 regulates triacylglycerol production and the fatty acid profile in <i>Phaeodactylum tricoratum</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 318.	6.2	64
6	Adaptive evolution of microalgal strains empowered by fulvic acid for enhanced polyunsaturated fatty acid production. <i>Bioresource Technology</i> , 2019, 277, 204-210.	4.8	55
7	Emerging waste valorisation techniques to moderate the hazardous impacts, and their path towards sustainability. <i>Journal of Hazardous Materials</i> , 2022, 423, 127023.	6.5	46
8	Enhanced polyunsaturated fatty acid production using food wastes and biofuels byproducts by an evolved strain of <i>Phaeodactylum tricoratum</i> . <i>Bioresource Technology</i> , 2020, 296, 122351.	4.8	40
9	Enrichment of Long-Chain Polyunsaturated Fatty Acids by Coordinated Expression of Multiple Metabolic Nodes in the Oleaginous Microalga <i>Phaeodactylum tricoratum</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 7713-7720.	2.4	39
10	Identification of a putative patatin-like phospholipase domain-containing protein 3 (PNPLA3) ortholog involved in lipid metabolism in microalga <i>Phaeodactylum tricoratum</i> . <i>Algal Research</i> , 2015, 12, 274-279.	2.4	38
11	Antisense knockdown of pyruvate dehydrogenase kinase promotes the neutral lipid accumulation in the diatom <i>Phaeodactylum tricoratum</i> . <i>Microbial Cell Factories</i> , 2014, 13, 100.	1.9	36
12	Ethanol induced jasmonate pathway promotes astaxanthin hyperaccumulation in <i>Haematococcus pluvialis</i> . <i>Bioresource Technology</i> , 2019, 289, 121720.	4.8	34
13	Biotechnology of Plastic Waste Degradation, Recycling, and Valorization: Current Advances and Future Perspectives. <i>ChemSusChem</i> , 2021, 14, 4103-4114.	3.6	34
14	TAG pathway engineering via GPAT2 concurrently potentiates abiotic stress tolerance and oleaginity in <i>Phaeodactylum tricoratum</i> . <i>Biotechnology for Biofuels</i> , 2020, 13, 160.	6.2	33
15	A lipid droplet-associated protein involved in lipid droplet biogenesis and triacylglycerol accumulation in the oleaginous microalga <i>Phaeodactylum tricoratum</i> . <i>Algal Research</i> , 2017, 26, 215-224.	2.4	32
16	Sustainable and stepwise waste-based utilisation strategy for the production of biomass and biofuels by engineered microalgae. <i>Environmental Pollution</i> , 2020, 265, 114854.	3.7	31
17	Biotechnological approaches to enhance biofuel producing potential of microalgae. <i>Fuel</i> , 2021, 302, 121169.	3.4	30
18	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

#	ARTICLE	IF	CITATIONS
19	Physiological and molecular responses in halotolerant <i>Dunaliella salina</i> exposed to molybdenum disulfide nanoparticles. <i>Journal of Hazardous Materials</i> , 2021, 404, 124014.	6.5	23
20	A waste upcycling loop: Two-factor adaptive evolution of microalgae to increase polyunsaturated fatty acid production using food waste. <i>Journal of Cleaner Production</i> , 2022, 331, 130018.	4.6	22
21	A combined light regime and carbon supply regulation strategy for microalgae-based sugar industry wastewater treatment and low-carbon biofuel production to realise a circular economy. <i>Chemical Engineering Journal</i> , 2022, 446, 137422.	6.6	21
22	Identification of a putative seipin ortholog involved in lipid accumulation in marine microalga <i>Phaeodactylum tricornutum</i> . <i>Journal of Applied Phycology</i> , 2017, 29, 2821-2829.	1.5	20
23	Oral administration of <i>Anabaena</i> -expressed VP28 for both drug and food against white spot syndrome virus in shrimp. <i>Journal of Applied Phycology</i> , 2016, 28, 1001-1009.	1.5	19
24	Heterogeneous expression of human PNPLA3 triggers algal lipid accumulation and lipid droplet enlargement. <i>Algal Research</i> , 2018, 31, 276-281.	2.4	18
25	Antisense knockdown of pyruvate dehydrogenase kinase promotes the neutral lipid accumulation in the diatom. <i>Microbial Cell Factories</i> , 2014, 13, 100.	1.9	17
26	Effective bioremediation of tobacco wastewater by microalgae at acidic pH for synergistic biomass and lipid accumulation. <i>Journal of Hazardous Materials</i> , 2022, 426, 127820.	6.5	13
27	Supplementation with <i>rac</i> -GR24 Facilitates the Accumulation of Biomass and Astaxanthin in Two Successive Stages of <i>Haematococcus pluvialis</i> Cultivation. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 4677-4689.	2.4	13
28	Enhancing the recombinant protein productivity of <i>Yarrowia lipolytica</i> using insitu fibrous bed bioreactor. <i>Bioresource Technology</i> , 2021, 340, 125672.	4.8	11
29	An auxin-like supermolecule to simultaneously enhance growth and cumulative eicosapentaenoic acid production in <i>Phaeodactylum tricornutum</i> . <i>Bioresource Technology</i> , 2022, 345, 126564.	4.8	11
30	Molybdenum disulfide nanoparticles concurrently stimulated biomass and β -carotene accumulation in <i>Dunaliella salina</i> . <i>Bioresource Technology</i> , 2021, 320, 124391.	4.8	10
31	Hydrolysis of organophosphorus by diatom purple acid phosphatase and sequential regulation of cell metabolism. <i>Journal of Experimental Botany</i> , 2021, 72, 2918-2932.	2.4	9
32	Biotechnology of Plastic Waste Degradation, Recycling, and Valorization: Current Advances and Future Perspectives. <i>ChemSusChem</i> , 2021, 14, 3981-3981.	3.6	8
33	3-Oxoacyl acyl carrier protein reductase overexpression reveals its unprecedented roles in biofuel production and high-temperature tolerance in diatom. <i>Fuel</i> , 2022, 325, 124844.	3.4	8
34	Hyperaccumulation of fucoxanthin by enhancing methylerythritol phosphate pathway in <i>Phaeodactylum tricornutum</i> . <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 8783-8793.	1.7	5
35	Recent Progress in Solar-Induced Direct Biomass-to-Electricity Hybrid Fuel Cell Using Microalgae as Feedstocks. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 638971.	2.0	2
36	Robust Filtering of Affine-Projection-Like Maximum Correntropy Algorithm with Bias-Compensated. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
37	Regulatory role of death specific protein in response to nutrient limitation in a marine diatom. Algal Research, 2021, 58, 102392.	2.4	2
38	Transcriptional Engineering for Enhancing Valuable Components in Photosynthetic Microalgae. , 2019, , 353-366.		0