

Wenguang Zhou

List of Publications by Citations

Source: <https://exaly.com/author-pdf/477184/wenguang-zhou-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64

papers

3,165

citations

29

h-index

56

g-index

66

ext. papers

4,111

ext. citations

7.2

avg, IF

5.69

L-index

#	Paper	IF	Citations
64	Local bioprospecting for high-lipid producing microalgal strains to be grown on concentrated municipal wastewater for biofuel production. <i>Bioresource Technology</i> , 2011 , 102, 6909-19	11	305
63	Microalgae-based wastewater treatment for nutrients recovery: A review. <i>Bioresource Technology</i> , 2019 , 291, 121934	11	211
62	Biochar stability assessment methods: A review. <i>Science of the Total Environment</i> , 2019 , 647, 210-222	10.2	189
61	A hetero-photoautotrophic two-stage cultivation process to improve wastewater nutrient removal and enhance algal lipid accumulation. <i>Bioresource Technology</i> , 2012 , 110, 448-55	11	171
60	Novel fungal pelletization-assisted technology for algae harvesting and wastewater treatment. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 167, 214-28	3.2	164
59	Use of microalgae to recycle nutrients in aqueous phase derived from hydrothermal liquefaction process. <i>Bioresource Technology</i> , 2018 , 256, 529-542	11	158
58	Effect of wastewater-borne bacteria on algal growth and nutrients removal in wastewater-based algae cultivation system. <i>Bioresource Technology</i> , 2014 , 167, 8-13	11	133
57	Use of microalgae based technology for the removal of antibiotics from wastewater: A review. <i>Chemosphere</i> , 2020 , 238, 124680	8.4	129
56	Filamentous fungi assisted bio-flocculation: A novel alternative technique for harvesting heterotrophic and autotrophic microalgal cells. <i>Separation and Purification Technology</i> , 2013 , 107, 158-165	8.3	124
55	Growing <i>Chlorella</i> sp. on meat processing wastewater for nutrient removal and biomass production. <i>Bioresource Technology</i> , 2015 , 198, 189-97	11	117
54	Utilization of municipal solid and liquid wastes for bioenergy and bioproducts production. <i>Bioresource Technology</i> , 2016 , 215, 163-172	11	103
53	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	11	85
52	Enhanced mixotrophic growth of microalga <i>Chlorella</i> sp. on pretreated swine manure for simultaneous biofuel feedstock production and nutrient removal. <i>Bioresource Technology</i> , 2012 , 126, 71-9	11	82
51	Beneficial synergistic effect on bio-oil production from co-liquefaction of sewage sludge and lignocellulosic biomass. <i>Bioresource Technology</i> , 2018 , 251, 49-56	11	78
50	A Review on the Use of Microalgae for Sustainable Aquaculture. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2377	2.6	71
49	Mitigating ammonia nitrogen deficiency in dairy wastewaters for algae cultivation. <i>Bioresource Technology</i> , 2016 , 201, 33-40	11	71
48	Development of an effective acidogenically digested swine manure-based algal system for improved wastewater treatment and biofuel and feed production. <i>Applied Energy</i> , 2013 , 107, 255-263	10.7	71

47	A comparative study between fungal pellet- and spore-assisted microalgae harvesting methods for algae bioflocculation. <i>Bioresource Technology</i> , 2018 , 259, 181-190	11	70
46	Mass cultivation of microalgae on animal wastewater: a sequential two-stage cultivation process for energy crop and omega-3-rich animal feed production. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 168, 348-63	3.2	66
45	A review on pyrolysis of protein-rich biomass: Nitrogen transformation. <i>Bioresource Technology</i> , 2020 , 315, 123801	11	47
44	Isolation of a bacterial strain, <i>Acinetobacter</i> sp. from centrate wastewater and study of its cooperation with algae in nutrients removal. <i>Bioresource Technology</i> , 2017 , 235, 59-69	11	46
43	The migration and transformation behavior of heavy metals during co-liquefaction of municipal sewage sludge and lignocellulosic biomass. <i>Bioresource Technology</i> , 2018 , 259, 156-163	11	43
42	Biochar stability assessment by incubation and modelling: Methods, drawbacks and recommendations. <i>Science of the Total Environment</i> , 2019 , 664, 11-23	10.2	42
41	Microalgae screening under CO stress: Growth and micro-nutrients removal efficiency. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 170, 91-98	6.7	37
40	Aqueous phase recirculation during hydrothermal carbonization of microalgae and soybean straw: A comparison study. <i>Bioresource Technology</i> , 2020 , 298, 122502	11	36
39	Co-cultivation of microalgae in aquaponic systems. <i>Bioresource Technology</i> , 2017 , 245, 27-34	11	35
38	Exploration of a mechanism for the production of highly unsaturated fatty acids in <i>Scenedesmus</i> sp. at low temperature grown on oil crop residue based medium. <i>Bioresource Technology</i> , 2017 , 244, 542-551	11	33
37	Life cycle assessment of industrial scale production of spirulina tablets. <i>Algal Research</i> , 2018 , 34, 154-163	3	29
36	The effect of aqueous phase recirculation on hydrothermal liquefaction/carbonization of biomass: A review. <i>Bioresource Technology</i> , 2020 , 318, 124081	11	29
35	A novel approach of using zeolite for ammonium toxicity mitigation and value-added <i>Spirulina</i> cultivation in wastewater. <i>Bioresource Technology</i> , 2019 , 280, 127-135	11	27
34	Chemical compositions and wastewater properties of aqueous phase (wastewater) produced from the hydrothermal treatment of wet biomass: A review. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018 , 40, 2648-2659	1.6	27
33	A novel algal biofilm photobioreactor for efficient hog manure wastewater utilization and treatment. <i>Bioresource Technology</i> , 2019 , 292, 121925	11	25
32	Mutual influence of light and CO ₂ on carbon sequestration via cultivating mixotrophic alga <i>Auxenochlorella protothecoides</i> UMN280 in an organic carbon-rich wastewater. <i>Journal of Applied Phycology</i> , 2012 , 24, 1099-1105	3.2	23
31	Trophic mode conversion and nitrogen deprivation of microalgae for high ammonium removal from synthetic wastewater. <i>Bioresource Technology</i> , 2015 , 196, 668-76	11	22
30	Astaxanthin as a microalgal metabolite for aquaculture: A review on the synthetic mechanisms, production techniques, and practical application. <i>Algal Research</i> , 2021 , 54, 102178	5	22

29	Isolation of a non-fermentative bacterium, <i>Pseudomonas aeruginosa</i> , using intracellular carbon for denitrification and phosphorus-accumulation and relevant metabolic mechanisms. <i>Bioresource Technology</i> , 2016 , 211, 6-15	11	20
28	Co-culture of fungi-microalgae consortium for wastewater treatment: A review. <i>Bioresource Technology</i> , 2021 , 330, 125008	11	20
27	Cold Flow Properties of Biodiesel and the Improvement Methods: A Review. <i>Energy & Fuels</i> , 2020 , 34, 10364-10383	4.1	19
26	Lipid Production of Heterotrophic <i>Chlorella</i> sp. from Hydrolysate Mixtures of Lipid-Extracted Microalgal Biomass Residues and Molasses. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 177, 662-74	3.2	15
25	A state-of-the-art review on the synthetic mechanisms, production technologies, and practical application of polyunsaturated fatty acids from microalgae. <i>Algal Research</i> , 2021 , 55, 102281	5	15
24	The novel approach of using microbial system for sustainable development of aquaponics. <i>Journal of Cleaner Production</i> , 2019 , 217, 573-575	10.3	14
23	Microalgae biotechnology as a promising pathway to ecofriendly aquaculture: a state-of-the-art review. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 837-852	3.5	12
22	Metabolomic Evaluation of sp. as a Feed Ingredient Revealed Dose-Dependent Effects on Redox Balance, Intermediary and Microbial Metabolism in a Mouse Model. <i>Nutrients</i> , 2019 , 11,	6.7	11
21	Hydrothermal Carbonization of Microalgae-Fungal Pellets: Removal of Nutrients from the Aqueous Phase Fungi and Microalgae Cultivation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16823-16832	8.3	11
20	Machine learning prediction and optimization of bio-oil production from hydrothermal liquefaction of algae. <i>Bioresource Technology</i> , 2021 , 342, 126011	11	11
19	Microbial community-assisted water quality control and nutrients recovery: emerging technologies for the sustainable development of aquaponics. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 2405-2411	3.5	10
18	Microalgae biotechnology as an attempt for bioregenerative life support systems: problems and prospects. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 3039-3048	3.5	10
17	Toxicity alleviation for microalgae cultivation by cationic starch addition and ammonia stripping and study on the cost assessment.. <i>RSC Advances</i> , 2019 , 9, 38235-38245	3.7	10
16	Application of a novel microalgae-film based air purifier to improve air quality through oxygen production and fine particulates removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1057-1063	3.5	10
15	Application of nitrogen sufficiency conversion strategy for microalgae-based ammonium-rich wastewater treatment. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 2638-48	2.6	9
14	The application of microalgae biomass and bio-products as aquafeed for aquaculture. <i>Algal Research</i> , 2021 , 60, 102541	5	8
13	Emerging trends of culturing microalgae for fish-rearing environment protection. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 31-37	3.5	7
12	Replacement of feed by fresh microalgae as a novel technology to alleviate water deterioration in aquaculture.. <i>RSC Advances</i> , 2020 , 10, 20794-20800	3.7	6

11	Enhanced Harvesting of <i>Chlorella vulgaris</i> Using Combined Flocculants. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 180, 791-804	3.2	6
10	Sandcastle worm-inspired phytic acid and magnesium oxychloride cement copolymerization for performance enhancement. <i>Journal of Hazardous Materials</i> , 2021 , 404, 123992	12.8	6
9	Microalgae for nutrient recycling from food waste to aquaculture as feed substitute: a promising pathway to eco-friendly development. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2496-2508	3.5	5
8	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	3.2	4
7	The Next Generation Feedstock of Biofuel: <i>Jatropha</i> or <i>Chlorella</i> as Assessed by Their Life-Cycle Inventories. <i>Agriculture (Switzerland)</i> , 2014 , 4, 217-230	3	2
6	Application of microalgae biotechnology for the sustainable development of aquaculture. <i>Advances in Bioenergy</i> , 2021 , 117-163	3.9	1
5	Effects of Algae Feeding on Mouse Metabolome. <i>FASEB Journal</i> , 2015 , 29, 745.3	0.9	1
4	Enhancing Algal Yield and Nutrient Removal from Anaerobic Digestion Piggery Effluent by an Integrated Process-Optimization Strategy of Fungal Decolorization and Microalgae Cultivation. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4741	2.6	1
3	Determination and comparison of the activation energies of biodiesel microemulsion and biodiesel blends. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-10	1.6	0
2	Co-liquefaction of <i>Chlorella</i> and soybean straw for production of bio-crude: Effects of reusing aqueous phase as the reaction medium.. <i>Science of the Total Environment</i> , 2022 , 820, 153348	10.2	0
1	Modelling the thresholds of nitrogen/phosphorus concentration and hydraulic retention time for bloom control in reclaimed water landscape. <i>Frontiers of Environmental Science and Engineering</i> , 2022 , 16, 1	5.8	0