

Wenguang Zhou

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/477184/wenguang-zhou-publications-by-year.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	Co-liquefaction of Chlorella 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
63	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
62	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
61	Application of microalgae biotechnology for the sustainable development of aquaculture. <i>Advances in Bioenergy</i> , 2021 , 117-163	3.9	1
60	The application of microalgae biomass and bio-products as aquafeed for aquaculture. <i>Algal Research</i> , 2021 , 60, 102541	5	8
59	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
58	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
57	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
56	Co-culture of fungi-microalgae consortium for wastewater treatment: A review. <i>Bioresource Technology</i> , 2021 , 330, 125008	11	20
55	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
54	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
53	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
52	Machine learning prediction and optimization of bio-oil production from hydrothermal liquefaction of algae. <i>Bioresource Technology</i> , 2021 , 342, 126011	11	11
51	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
50	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
49	Aqueous phase recirculation during hydrothermal carbonization of microalgae and soybean straw: A comparison study. <i>Bioresource Technology</i> , 2020 , 298, 122502	11	36
48	The effect of aqueous phase recirculation on hydrothermal liquefaction/carbonization of biomass: A review. <i>Bioresource Technology</i> , 2020 , 318, 124081	11	29

47	A review on pyrolysis of protein-rich biomass: Nitrogen transformation. <i>Bioresource Technology</i> , 2020 , 315, 123801	11	47
46	Cold Flow Properties of Biodiesel and the Improvement Methods: A Review. <i>Energy & Fuels</i> , 2020 , 34, 10364-10383	4.1	19
45	Use of microalgae based technology for the removal of antibiotics from wastewater: A review. <i>Chemosphere</i> , 2020 , 238, 124680	8.4	129
44	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
43	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
42	A Review on the Use of Microalgae for Sustainable Aquaculture. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2377	2.6	71
41	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
40	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
39	Biochar stability assessment methods: A review. <i>Science of the Total Environment</i> , 2019 , 647, 210-222	10.2	189
38	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
37	A novel algal biofilm photobioreactor for efficient hog manure wastewater utilization and treatment. <i>Bioresource Technology</i> , 2019 , 292, 121925	11	25
36	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
35	Microalgae-based wastewater treatment for nutrients recovery: A review. <i>Bioresource Technology</i> , 2019 , 291, 121934	11	211
34	A novel approach of using zeolite for ammonium toxicity mitigation and value-added Spirulina cultivation in wastewater. <i>Bioresource Technology</i> , 2019 , 280, 127-135	11	27
33	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
32	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
31	Exploring an isolate of the oleaginous alga <i>Micractinium inermum</i> for lipid production: molecular characterization and physiochemical analysis under multiple growth conditions. <i>Journal of Applied Phycology</i> , 2019 , 31, 1035-1046	3.2	4
30	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

29	Use of microalgae to recycle nutrients in aqueous phase derived from hydrothermal liquefaction process. <i>Bioresource Technology</i> , 2018 , 256, 529-542	11	158
28	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
27	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
26	Life cycle assessment of industrial scale production of spirulina tablets. <i>Algal Research</i> , 2018 , 34, 154-163	3	29
25	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
24	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
23	Isolation of a bacterial strain, Acinetobacter sp. from centrate wastewater and study of its cooperation with algae in nutrients removal. <i>Bioresource Technology</i> , 2017 , 235, 59-69	11	46
22	Co-cultivation of microalgae in aquaponic systems. <i>Bioresource Technology</i> , 2017 , 245, 27-34	11	35
21	Exploration of a mechanism for the production of highly unsaturated fatty acids in Scenedesmus sp. at low temperature grown on oil crop residue based medium. <i>Bioresource Technology</i> , 2017 , 244, 542-551	11	33
20	Isolation of a non-fermentative bacterium, Pseudomonas aeruginosa, using intracellular carbon for denitrification and phosphorus-accumulation and relevant metabolic mechanisms. <i>Bioresource Technology</i> , 2016 , 211, 6-15	11	20
19	Utilization of municipal solid and liquid wastes for bioenergy and bioproducts production. <i>Bioresource Technology</i> , 2016 , 215, 163-172	11	103
18	Mitigating ammonia nitrogen deficiency in dairy wastewaters for algae cultivation. <i>Bioresource Technology</i> , 2016 , 201, 33-40	11	71
17	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
16	Enhanced Harvesting of Chlorella vulgaris Using Combined Flocculants. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 180, 791-804	3.2	6
15	Simultaneous production of triacylglycerol and high-value carotenoids by the astaxanthin-producing oleaginous green microalga Chlorella zofingiensis. <i>Bioresource Technology</i> , 2016 , 214, 319-327	11	85
14	Lipid Production of Heterotrophic Chlorella 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
13	Growing Chlorella sp. on meat processing wastewater for nutrient removal and biomass production. <i>Bioresource Technology</i> , 2015 , 198, 189-97	11	117
12	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

11	Effects of Algae Feeding on Mouse Metabolome. <i>FASEB Journal</i> , 2015 , 29, 745.3	0.9	1
10	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
9	The Next Generation Feedstock of Biofuel: Jatropha or Chlorella as Assessed by Their Life-Cycle Inventories. <i>Agriculture (Switzerland)</i> , 2014 , 4, 217-230	3	2
8	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
7	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
6	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
5	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
4	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
3	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
2	Novel fungal pelletization-assisted technology for algae harvesting and wastewater treatment. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 167, 214-28	3.2	164
1	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