

Wenguang Zhou

List of Publications by Year in descending order

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papers

5,034
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101384

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docs citations

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times ranked

4405
citing authors

#	ARTICLE	IF	CITATIONS
1	Microalgae-based wastewater treatment for nutrients recovery: A review. <i>Bioresource Technology</i> , 2019, 291, 121934.	4.8	413
2	Biochar stability assessment methods: A review. <i>Science of the Total Environment</i> , 2019, 647, 210-222.	3.9	352
3	Local bioprospecting for high-lipid producing microalgal strains to be grown on concentrated municipal wastewater for biofuel production. <i>Bioresource Technology</i> , 2011, 102, 6909-6919.	4.8	344
4	Use of microalgae based technology for the removal of antibiotics from wastewater: A review. <i>Chemosphere</i> , 2020, 238, 124680.	4.2	267
5	Novel Fungal Pelletization-Assisted Technology for Algae Harvesting and Wastewater Treatment. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 214-228.	1.4	207
6	A hetero-photoautotrophic two-stage cultivation process to improve wastewater nutrient removal and enhance algal lipid accumulation. <i>Bioresource Technology</i> , 2012, 110, 448-455.	4.8	203
7	Use of microalgae to recycle nutrients in aqueous phase derived from hydrothermal liquefaction process. <i>Bioresource Technology</i> , 2018, 256, 529-542.	4.8	198
8	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.	4.8	166
9	Growing <i>Chlorella</i> sp. on meat processing wastewater for nutrient removal and biomass production. <i>Bioresource Technology</i> , 2015, 198, 189-197.	4.8	155
10	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.	3.9	154
11	Utilization of municipal solid and liquid wastes for bioenergy and bioproducts production. <i>Bioresource Technology</i> , 2016, 215, 163-172.	4.8	141
12	A Review on the Use of Microalgae for Sustainable Aquaculture. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2377.	1.3	135
13	A review on pyrolysis of protein-rich biomass: Nitrogen transformation. <i>Bioresource Technology</i> , 2020, 315, 123801.	4.8	131
14	A comparative study between fungal pellet- and spore-assisted microalgae harvesting methods for algae bioflocculation. <i>Bioresource Technology</i> , 2018, 259, 181-190.	4.8	120
15	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.	4.8	114
16	Beneficial synergistic effect on bio-oil production from co-liquefaction of sewage sludge and lignocellulosic biomass. <i>Bioresource Technology</i> , 2018, 251, 49-56.	4.8	106
17	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, 71-79.	4.8	97
18	Mitigating ammonia nitrogen deficiency in dairy wastewaters for algae cultivation. <i>Bioresource Technology</i> , 2016, 201, 33-40.	4.8	93

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19	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, 348-363.	1.4	82
20	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.	5.1	82
21	Machine learning prediction and optimization of bio-oil production from hydrothermal liquefaction of algae. <i>Bioresource Technology</i> , 2021, 342, 126011.	4.8	82
22	Co-culture of fungi-microalgae consortium for wastewater treatment: A review. <i>Bioresource Technology</i> , 2021, 330, 125008.	4.8	81
23	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.	4.8	74
24	Aqueous phase recirculation during hydrothermal carbonization of microalgae and soybean straw: A comparison study. <i>Bioresource Technology</i> , 2020, 298, 122502.	4.8	72
25	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.	4.8	69
26	Biochar stability assessment by incubation and modelling: Methods, drawbacks and recommendations. <i>Science of the Total Environment</i> , 2019, 664, 11-23.	3.9	69
27	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.	2.4	64
28	The effect of aqueous phase recirculation on hydrothermal liquefaction/carbonization of biomass: A review. <i>Bioresource Technology</i> , 2020, 318, 124081.	4.8	58
29	Life cycle assessment of industrial scale production of spirulina tablets. <i>Algal Research</i> , 2018, 34, 154-163.	2.4	57
30	Microalgae screening under CO ₂ stress: Growth and micro-nutrients removal efficiency. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 170, 91-98.	1.7	52
31	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.	4.8	51
32	Co-cultivation of microalgae in aquaponic systems. <i>Bioresource Technology</i> , 2017, 245, 27-34.	4.8	49
33	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.	4.8	44
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.	1.2	44
35	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.	2.4	43
36	The application of microalgae biomass and bio-products as aquafeed for aquaculture. <i>Algal Research</i> , 2021, 60, 102541.	2.4	43

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37	Trophic mode conversion and nitrogen deprivation of microalgae for high ammonium removal from synthetic wastewater. <i>Bioresource Technology</i> , 2015, 196, 668-676.	4.8	40
38	A novel algal biofilm photobioreactor for efficient hog manure wastewater utilization and treatment. <i>Bioresource Technology</i> , 2019, 292, 121925.	4.8	40
39	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.	1.6	39
40	Cold Flow Properties of Biodiesel and the Improvement Methods: A Review. <i>Energy & Fuels</i> , 2020, 34, 10364-10383.	2.5	35
41	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.	1.5	30
42	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.	4.8	29
43	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.	3.2	26
44	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.	3.9	25
45	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.	1.6	22
46	Microalgae for nutrient recycling from food waste to aquaculture as feed substitute: a promising pathway to ecofriendly development. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 2496-2508.	1.6	22
47	Sandcastle worm-inspired phytic acid and magnesium oxychloride cement copolymerization for performance enhancement. <i>Journal of Hazardous Materials</i> , 2021, 404, 123992.	6.5	20
48	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.	1.7	19
49	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, 662-674.	1.4	17
50	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.	1.6	17
51	The novel approach of using microbial system for sustainable development of aquaponics. <i>Journal of Cleaner Production</i> , 2019, 217, 573-575.	4.6	17
52	Metabolomic Evaluation of <i>Scenedesmus</i> 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, 1971.	1.7	15
53	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.	1.6	14
54	Replacement of feed by fresh microalgae as a novel technology to alleviate water deterioration in aquaculture. <i>RSC Advances</i> , 2020, 10, 20794-20800.	1.7	14

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55	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.	3.3	12
56	Application of nitrogen sufficiency conversion strategy for microalgae-based ammonium-rich wastewater treatment. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2638-2648.	1.2	11
57	Enhanced Harvesting of <i>Chlorella vulgaris</i> Using Combined Flocculants. <i>Applied Biochemistry and Biotechnology</i> , 2016, 180, 791-804.	1.4	11
58	Emerging trends of culturing microalgae for fish rearing environment protection. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 31-37.	1.6	11
59	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.	1.3	10
60	Microalgae and yeast based astaxanthin production via nutrient recovery from wastewater for aquaculture practice: an emerging technology for sustainable development. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 3035-3048.	1.6	7
61	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.	1.5	5
62	Application of microalgae biotechnology for the sustainable development of aquaculture. <i>Advances in Bioenergy</i> , 2021, , 117-163.	0.5	5
63	Advancements of application of microalgae biotechnology in the aquaculture water quality control. <i>Advances in Bioenergy</i> , 2022, , 167-210.	0.5	4
64	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.	1.4	2
65	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.	1.2	2
66	Effects of Algae Feeding on Mouse Metabolome. <i>FASEB Journal</i> , 2015, 29, 745.3.	0.2	1