Shijian Ge

List of Publications by Year
in descending order

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Version: 2024-02-01

52	2,435	218381	205818
papers	citations	26 h-index	48 g-index

52	52	52	2313
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Insights into the multi-targeted effects of free nitrous acid on the microalgae Chlorella sorokiniana in wastewater. Bioresource Technology, 2022, 347, 126389.	4.8	21
2	Unravelling multiple removal pathways of oseltamivir in wastewater by microalgae through experimentation and computation. Journal of Hazardous Materials, 2022, 427, 128139.	6.5	7
3	Response of substrate kinetics and biological mechanisms to various pH constrains for cultured Nitrobacter and Nitrospira in nitrifying bioreactor. Journal of Environmental Management, 2022, 307, 114499.	3.8	7
4	Microalgal Activity and Nutrient Uptake from Wastewater Enhanced by Nanoscale Zerovalent Iron: Performance and Molecular Mechanism. Environmental Science & Technology, 2022, 56, 585-594.	4.6	23
5	Evaluation of nitrogen source, concentration and feeding mode for co-production of fucoxanthin and fatty acids in Phaeodactylum tricornutum. Algal Research, 2022, 63, 102655.	2.4	6
6	Granular indigenous microalgal-bacterial consortium for wastewater treatment: Establishment strategy, functional microorganism, nutrient removal, and influencing factor. Bioresource Technology, 2022, 353, 127130.	4.8	24
7	Effect of short-term light irradiation with varying energy densities on the activities of nitrifiers in wastewater. Water Research, 2022, 216, 118291.	5.3	23
8	Instant Inhibition and Subsequent Self-Adaptation of Chlorella sp. Toward Free Ammonia Shock in Wastewater: Physiological and Genetic Responses. Environmental Science & Technology, 2022, 56, 9641-9650.	4.6	13
9	An integrated mainstream and sidestream strategy for overcoming nitrite oxidizing bacteria adaptation in a continuous plug-flow nutrient removal process. Bioresource Technology, 2021, 319, 124133.	4.8	22
10	A review of biopolymer (Poly-Î²-hydroxybutyrate) synthesis in microbes cultivated on wastewater. Science of the Total Environment, 2021, 756, 143729.	3.9	38
11	Transformation of oil and hexadecane in soil by microbial preparations and earthworms. Bioremediation Journal, 2021, 25, 159-168.	1.0	2
12	Effects of algae subtype and extraction condition on extracted fucoxanthin antioxidant property: A 20-year meta-analysis. Algal Research, 2021, 53, 102161.	2.4	8
13	An evolved native microalgal consortium-snow system for the bioremediation of biogas and centrate wastewater: Start-up, optimization and stabilization. Water Research, 2021, 196, 117038.	5.3	33
14	Enhanced Secretions of Algal Cell-Adhesion Molecules and Metal Ion-Binding Exoproteins Promote Self-Flocculation of Chlorella sp. Cultivated in Municipal Wastewater. Environmental Science & Technology, 2021, 55, 11916-11924.	4.6	51
15	Understanding the effect of free ammonia on microbial nitrification mechanisms in suspended activated sludge bioreactors. Environmental Research, 2021, 200, 111737.	3.7	20
16	Light Irradiation Enables Rapid Start-Up of Nitritation through Suppressing nxrB Gene Expression and Stimulating Ammonia-Oxidizing Bacteria. Environmental Science & Technology, 2021, 55, 13297-13305.	4.6	19
17	Diversity, abundance and expression of the antibiotic resistance genes in a Chinese landfill: Effect of deposit age. Journal of Hazardous Materials, 2021, 417, 126027.	6.5	14
18	Development of a Microalgal (Chlorella)-Bacterial (Paracoccus) Symbiotic System for Pyridine Biodegradation under Photosynthetic Oxygenation. ACS ES&T Water, 2021, 1, 356-365.	2.3	10

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19	Antioxidant assessment of wastewater-cultivated Chlorella sorokiniana in Drosophila melanogaster. Algal Research, 2020, 46, 101795.	2.4	7
20	Simultaneous improvements on nutrient and Mg recoveries of microalgal bioremediation for municipal wastewater and nickel laterite ore wastewater. Bioresource Technology, 2020, 297, 122517.	4.8	54
21	Driving force heterogeneity of urban PM2.5 pollution: Evidence from the Yangtze River Delta, China. Ecological Indicators, 2020, 113, 106210.	2.6	15
22	Reducing carbon source consumption through a novel denitratation/anammox biofilter to remove nitrate from synthetic secondary effluent. Bioresource Technology, 2020, 309, 123377.	4.8	46
23	Responses of microbial structures, functions, metabolic pathways and community interactions to different C/N ratios in aerobic nitrification. Bioresource Technology, 2020, 311, 123422.	4.8	41
24	Free ammonia is the primary stress factor rather than total ammonium to Chlorella sorokiniana in simulated sludge fermentation liquor. Chemical Engineering Journal, 2020, 397, 125490.	6.6	39
25	Effects of crystalline nanocellulose on wastewater-cultivated microalgal separation and biomass composition. Applied Energy, 2019, 239, 207-217.	5.1	26
26	Assessment of microalgae as a new feeding additive for fruit fly Drosophila melanogaster. Science of the Total Environment, 2019, 667, 455-463.	3.9	16
27	Centrate wastewater treatment with Chlorella vulgaris : Simultaneous enhancement of nutrient removal, biomass and lipid production. Chemical Engineering Journal, 2018, 342, 310-320.	6.6	134
28	Use of freshwater macroalgae Spirogyra sp. for the treatment of municipal wastewaters and biomass production for biofuel applications. Biomass and Bioenergy, 2018, 111, 213-223.	2.9	46
29	Advances and Challenges at the Waste-to-Bioenergy/Biorefinery Nexus. BioMed Research International, 2018, 2018, 1-2.	0.9	8
30	Benchmarking Toronto wastewater treatment plants using DEA window and Tobit regression analysis with a dynamic efficiency perspective. Environmental Science and Pollution Research, 2018, 25, 32649-32659.	2.7	21
31	Determination of Microalgal Lipid Content and Fatty Acid for Biofuel Production. BioMed Research International, 2018, 2018, 1-17.	0.9	41
32	Cultivation of the Marine Macroalgae Chaetomorpha linum in Municipal Wastewater for Nutrient Recovery and Biomass Production. Environmental Science & Technology, 2017, 51, 3558-3566.	4.6	60
33	Microalgal cultivation with waste streams and metabolic constraints to triacylglycerides accumulation for biofuel production. Biofuels, Bioproducts and Biorefining, 2017, 11, 325-343.	1.9	40
34	Microalgae Recovery from Water for Biofuel Production Using CO₂-Switchable Crystalline Nanocellulose. Environmental Science & Technology, 2016, 50, 7896-7903.	4.6	43
35	Roles of Reactive Oxygen Species and Holes in the Photodegradation of Cationic and Anionic Dyes by TiO2 under UV Irradiation. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	15
36	Nutrient removal, microalgal biomass growth, harvesting and lipid yield in response to centrate wastewater loadings. Water Research, 2016, 88, 604-612.	5.3	118

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37	Recovering Magnetic Fe₃O₄â€“ZnO Nanocomposites from Algal Biomass Based on Hydrophobicity Shift under UV Irradiation. ACS Applied Materials & Interfaces, 2015, 7, 11677-11682.	4.0	30
38	Detection of nitrifiers and evaluation of partial nitrification for wastewater treatment: A review. Chemosphere, 2015, 140, 85-98.	4.2	341
39	Heteroaggregation between PEI-Coated Magnetic Nanoparticles and Algae: Effect of Particle Size on Algal Harvesting Efficiency. ACS Applied Materials & Interfaces, 2015, 7, 6102-6108.	4.0	87
40	Influences of Surface Coating, UV Irradiation and Magnetic Field on the Algae Removal Using Magnetite Nanoparticles. Environmental Science & Technology, 2015, 49, 1190-1196.	4.6	89
41	Evaluation of upgrading a full-scale activated sludge process integrated with floating biofilm carriers. Water Science and Technology, 2014, 70, 1594-1601.	1.2	6
42	Complete nitrogen removal from municipal wastewater via partial nitrification by appropriately alternating anoxic/aerobic conditions in a continuous plug-flow step feed process. Water Research, 2014, 55, 95-105.	5.3	186
43	Algae harvesting for biofuel production: Influences of UV irradiation and polyethylenimine (PEI) coating on bacterial biocoagulation. Bioresource Technology, 2014, 166, 266-272.	4.8	44
44	Denitrification and phosphorus uptake by DPAOs using nitrite as an electron acceptor by step-feed strategies. Frontiers of Environmental Science and Engineering, 2013, 7, 267-272.	3.3	12
45	Pathways and Organisms Involved in Ammonia Oxidation and Nitrous Oxide Emission. Critical Reviews in Environmental Science and Technology, 2013, 43, 2213-2296.	6.6	76
46	Practical consideration for design and optimization of the step feed process. Frontiers of Environmental Science and Engineering, 2013, 7, 135-142.	3.3	11
47	Full-scale demonstration of step feed concept for improving an anaerobic/anoxic/aerobic nutrient removal process. Bioresource Technology, 2012, 120, 305-313.	4.8	34
48	Nitrite accumulation under constant temperature in anoxic denitrification process: The effects of carbon sources and COD/NO3-N. Bioresource Technology, 2012, 114, 137-143.	4.8	235
49	Enhanced nutrient removal in three types of step feeding process from municipal wastewater. Bioresource Technology, 2011, 102, 6405-6413.	4.8	58
50	Nutrient removal performance at low temperatures in the modified UCT step feed process. , 2011, , .		0
51	Enhanced nutrient removal in a modified step feed process treating municipal wastewater with different inflow distribution ratios and nutrient ratios. Bioresource Technology, 2010, 101, 9012-9019.	4.8	109
52	Potential of Ulva lactuca for municipal wastewater bioremediation and fly food. , 0, 91, 23-30.		6