

Shijian Ge

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,435
citations

218381

26
h-index

205818

48
g-index

52
all docs

52
docs citations

52
times ranked

2313
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of nitrifiers and evaluation of partial nitrification for wastewater treatment: A review. <i>Chemosphere</i> , 2015, 140, 85-98.	4.2	341
2	Nitrite accumulation under constant temperature in anoxic denitrification process: The effects of carbon sources and COD/NO ₃ -N. <i>Bioresource Technology</i> , 2012, 114, 137-143.	4.8	235
3	Complete nitrogen removal from municipal wastewater via partial nitrification by appropriately alternating anoxic/aerobic conditions in a continuous plug-flow step feed process. <i>Water Research</i> , 2014, 55, 95-105.	5.3	186
4	Centrate wastewater treatment with <i>Chlorella vulgaris</i> : Simultaneous enhancement of nutrient removal, biomass and lipid production. <i>Chemical Engineering Journal</i> , 2018, 342, 310-320.	6.6	134
5	Nutrient removal, microalgal biomass growth, harvesting and lipid yield in response to centrate wastewater loadings. <i>Water Research</i> , 2016, 88, 604-612.	5.3	118
6	Enhanced nutrient removal in a modified step feed process treating municipal wastewater with different inflow distribution ratios and nutrient ratios. <i>Bioresource Technology</i> , 2010, 101, 9012-9019.	4.8	109
7	Influences of Surface Coating, UV Irradiation and Magnetic Field on the Algae Removal Using Magnetite Nanoparticles. <i>Environmental Science & Technology</i> , 2015, 49, 1190-1196.	4.6	89
8	Heteroaggregation between PEI-Coated Magnetic Nanoparticles and Algae: Effect of Particle Size on Algal Harvesting Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6102-6108.	4.0	87
9	Pathways and Organisms Involved in Ammonia Oxidation and Nitrous Oxide Emission. <i>Critical Reviews in Environmental Science and Technology</i> , 2013, 43, 2213-2296.	6.6	76
10	Cultivation of the Marine Macroalgae <i>Chaetomorpha linum</i> in Municipal Wastewater for Nutrient Recovery and Biomass Production. <i>Environmental Science & Technology</i> , 2017, 51, 3558-3566.	4.6	60
11	Enhanced nutrient removal in three types of step feeding process from municipal wastewater. <i>Bioresource Technology</i> , 2011, 102, 6405-6413.	4.8	58
12	Simultaneous improvements on nutrient and Mg recoveries of microalgal bioremediation for municipal wastewater and nickel laterite ore wastewater. <i>Bioresource Technology</i> , 2020, 297, 122517.	4.8	54
13	Enhanced Secretions of Algal Cell-Adhesion Molecules and Metal Ion-Binding Exoproteins Promote Self-Flocculation of <i>Chlorella</i> sp. Cultivated in Municipal Wastewater. <i>Environmental Science & Technology</i> , 2021, 55, 11916-11924.	4.6	51
14	Use of freshwater macroalgae <i>Spirogyra</i> sp. for the treatment of municipal wastewaters and biomass production for biofuel applications. <i>Biomass and Bioenergy</i> , 2018, 111, 213-223.	2.9	46
15	Reducing carbon source consumption through a novel denitrification/anammox biofilter to remove nitrate from synthetic secondary effluent. <i>Bioresource Technology</i> , 2020, 309, 123377.	4.8	46
16	Algae harvesting for biofuel production: Influences of UV irradiation and polyethylenimine (PEI) coating on bacterial bioagglutination. <i>Bioresource Technology</i> , 2014, 166, 266-272.	4.8	44
17	Microalgae Recovery from Water for Biofuel Production Using CO ₂ -Switchable Crystalline Nanocellulose. <i>Environmental Science & Technology</i> , 2016, 50, 7896-7903.	4.6	43
18	Determination of Microalgal Lipid Content and Fatty Acid for Biofuel Production. <i>BioMed Research International</i> , 2018, 2018, 1-17.	0.9	41

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19	Responses of microbial structures, functions, metabolic pathways and community interactions to different C/N ratios in aerobic nitrification. <i>Bioresource Technology</i> , 2020, 311, 123422.	4.8	41
20	Microalgal cultivation with waste streams and metabolic constraints to triacylglycerides accumulation for biofuel production. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 325-343.	1.9	40
21	Free ammonia is the primary stress factor rather than total ammonium to <i>Chlorella sorokiniana</i> in simulated sludge fermentation liquor. <i>Chemical Engineering Journal</i> , 2020, 397, 125490.	6.6	39
22	A review of biopolymer (Poly- β -hydroxybutyrate) synthesis in microbes cultivated on wastewater. <i>Science of the Total Environment</i> , 2021, 756, 143729.	3.9	38
23	Full-scale demonstration of step feed concept for improving an anaerobic/anoxic/aerobic nutrient removal process. <i>Bioresource Technology</i> , 2012, 120, 305-313.	4.8	34
24	An evolved native microalgal consortium-snow system for the bioremediation of biogas and centrate wastewater: Start-up, optimization and stabilization. <i>Water Research</i> , 2021, 196, 117038.	5.3	33
25	Recovering Magnetic Fe ₃ O ₄ @ZnO Nanocomposites from Algal Biomass Based on Hydrophobicity Shift under UV Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11677-11682.	4.0	30
26	Effects of crystalline nanocellulose on wastewater-cultivated microalgal separation and biomass composition. <i>Applied Energy</i> , 2019, 239, 207-217.	5.1	26
27	Granular indigenous microalgal-bacterial consortium for wastewater treatment: Establishment strategy, functional microorganism, nutrient removal, and influencing factor. <i>Bioresource Technology</i> , 2022, 353, 127130.	4.8	24
28	Microalgal Activity and Nutrient Uptake from Wastewater Enhanced by Nanoscale Zerovalent Iron: Performance and Molecular Mechanism. <i>Environmental Science & Technology</i> , 2022, 56, 585-594.	4.6	23
29	Effect of short-term light irradiation with varying energy densities on the activities of nitrifiers in wastewater. <i>Water Research</i> , 2022, 216, 118291.	5.3	23
30	An integrated mainstream and sidestream strategy for overcoming nitrite oxidizing bacteria adaptation in a continuous plug-flow nutrient removal process. <i>Bioresource Technology</i> , 2021, 319, 124133.	4.8	22
31	Benchmarking Toronto wastewater treatment plants using DEA window and Tobit regression analysis with a dynamic efficiency perspective. <i>Environmental Science and Pollution Research</i> , 2018, 25, 32649-32659.	2.7	21
32	Insights into the multi-targeted effects of free nitrous acid on the microalgae <i>Chlorella sorokiniana</i> in wastewater. <i>Bioresource Technology</i> , 2022, 347, 126389.	4.8	21
33	Understanding the effect of free ammonia on microbial nitrification mechanisms in suspended activated sludge bioreactors. <i>Environmental Research</i> , 2021, 200, 111737.	3.7	20
34	Light Irradiation Enables Rapid Start-Up of Nitrification through Suppressing <i>nxrB</i> Gene Expression and Stimulating Ammonia-Oxidizing Bacteria. <i>Environmental Science & Technology</i> , 2021, 55, 13297-13305.	4.6	19
35	Assessment of microalgae as a new feeding additive for fruit fly <i>Drosophila melanogaster</i> . <i>Science of the Total Environment</i> , 2019, 667, 455-463.	3.9	16
36	Roles of Reactive Oxygen Species and Holes in the Photodegradation of Cationic and Anionic Dyes by TiO ₂ under UV Irradiation. <i>Journal of Environmental Engineering, ASCE</i> , 2016, 142, .	0.7	15

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37	Driving force heterogeneity of urban PM2.5 pollution: Evidence from the Yangtze River Delta, China. <i>Ecological Indicators</i> , 2020, 113, 106210.	2.6	15
38	Diversity, abundance and expression of the antibiotic resistance genes in a Chinese landfill: Effect of deposit age. <i>Journal of Hazardous Materials</i> , 2021, 417, 126027.	6.5	14
39	Instant Inhibition and Subsequent Self-Adaptation of <i>Chlorella</i> sp. Toward Free Ammonia Shock in Wastewater: Physiological and Genetic Responses. <i>Environmental Science & Technology</i> , 2022, 56, 9641-9650.	4.6	13
40	Denitrification and phosphorus uptake by DPAOs using nitrite as an electron acceptor by step-feed strategies. <i>Frontiers of Environmental Science and Engineering</i> , 2013, 7, 267-272.	3.3	12
41	Practical consideration for design and optimization of the step feed process. <i>Frontiers of Environmental Science and Engineering</i> , 2013, 7, 135-142.	3.3	11
42	Development of a Microalgal (<i>Chlorella</i>)-Bacterial (<i>Paracoccus</i>) Symbiotic System for Pyridine Biodegradation under Photosynthetic Oxygenation. <i>ACS ES&T Water</i> , 2021, 1, 356-365.	2.3	10
43	Advances and Challenges at the Waste-to-Bioenergy/Biorefinery Nexus. <i>BioMed Research International</i> , 2018, 2018, 1-2.	0.9	8
44	Effects of algae subtype and extraction condition on extracted fucoxanthin antioxidant property: A 20-year meta-analysis. <i>Algal Research</i> , 2021, 53, 102161.	2.4	8
45	Antioxidant assessment of wastewater-cultivated <i>Chlorella sorokiniana</i> in <i>Drosophila melanogaster</i> . <i>Algal Research</i> , 2020, 46, 101795.	2.4	7
46	Unravelling multiple removal pathways of oseltamivir in wastewater by microalgae through experimentation and computation. <i>Journal of Hazardous Materials</i> , 2022, 427, 128139.	6.5	7
47	Response of substrate kinetics and biological mechanisms to various pH constrains for cultured <i>Nitrobacter</i> and <i>Nitrospira</i> in nitrifying bioreactor. <i>Journal of Environmental Management</i> , 2022, 307, 114499.	3.8	7
48	Evaluation of upgrading a full-scale activated sludge process integrated with floating biofilm carriers. <i>Water Science and Technology</i> , 2014, 70, 1594-1601.	1.2	6
49	Potential of <i>Ulva lactuca</i> for municipal wastewater bioremediation and fly food. , 0, 91, 23-30.		6
50	Evaluation of nitrogen source, concentration and feeding mode for co-production of fucoxanthin and fatty acids in <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2022, 63, 102655.	2.4	6
51	Transformation of oil and hexadecane in soil by microbial preparations and earthworms. <i>Bioremediation Journal</i> , 2021, 25, 159-168.	1.0	2
52	Nutrient removal performance at low temperatures in the modified UCT step feed process. , 2011, , .		0