

Hui Lu

List of Publications by Year in descending order

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57
papers

3,926
citations

126907

33
h-index

149698

56
g-index

60
all docs

60
docs citations

60
times ranked

3501
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling pharmaceuticals removal in a sulfur-driven autotrophic denitrification process: Performance, kinetics and mechanisms. <i>Chinese Chemical Letters</i> , 2023, 34, 107433.	9.0	9
2	Advances in elemental sulfur-driven bioprocesses for wastewater treatment: From metabolic study to application. <i>Water Research</i> , 2022, 213, 118143.	11.3	42
3	Micro and nano bubbles promoted biofilm formation with strengthen of COD and TN removal synchronously in a blackened and odorous water. <i>Science of the Total Environment</i> , 2022, 837, 155578.	8.0	22
4	Changes of distribution and chemical speciation of metals in hexavalent chromium loaded algal-bacterial aerobic granular sludge before and after hydrothermal treatment. <i>Bioresource Technology</i> , 2022, 355, 127229.	9.6	8
5	Stress responses of sulfate-reducing bacteria sludge upon exposure to polyethylene microplastics. <i>Water Research</i> , 2022, 220, 118646.	11.3	20
6	Electron distribution in sulfur-driven autotrophic denitrification under different electron donor and acceptor feeding schemes. <i>Chemical Engineering Journal</i> , 2021, 404, 126486.	12.7	45
7	Meta-cresol degradation by persulfate through UV/O ₃ synergistic activation: Contribution of free radicals and degradation pathway. <i>Science of the Total Environment</i> , 2021, 754, 142219.	8.0	31
8	Influence of ibuprofen and its biotransformation products on different biological sludge systems and ecosystem. <i>Environment International</i> , 2021, 146, 106265.	10.0	24
9	Ciprofloxacin-degrading <i>Paraclostridium</i> sp. isolated from sulfate-reducing bacteria-enriched sludge: Optimization and mechanism. <i>Water Research</i> , 2021, 191, 116808.	11.3	59
10	Elemental sulfur-driven autotrophic denitrification for advanced nitrogen removal from mature landfill leachate after PN/A pretreatment. <i>Chemical Engineering Journal</i> , 2021, 410, 128256.	12.7	39
11	A Systematic Approach to Promote Environmental Engineering Students's Learning in Environmental Molecular Microbiology. <i>Journal of Microbiology and Biology Education</i> , 2021, 22, .	1.0	0
12	Nanobubble technology in anaerobic digestion: A review. <i>Bioresource Technology</i> , 2021, 329, 124916.	9.6	24
13	Synergistic biological removal of nitrogen and sulfide from saline mariculture wastewater by halophilic consortia. <i>Chemical Engineering Journal</i> , 2021, 423, 130280.	12.7	31
14	A Critical Review of Methods for Analyzing Freshwater Eutrophication. <i>Water (Switzerland)</i> , 2021, 13, 225.	2.7	42
15	Alleviating sulfide toxicity using biochar during anaerobic treatment of sulfate-laden wastewater. <i>Bioresource Technology</i> , 2020, 301, 122711.	9.6	44
16	Biotransformation of ibuprofen in biological sludge systems: Investigation of performance and mechanisms. <i>Water Research</i> , 2020, 170, 115303.	11.3	46
17	Correlation of extracellular polymeric substances and microbial community structure in denitrification biofilm exposed to adverse conditions. <i>Microbial Biotechnology</i> , 2020, 13, 1889-1903.	4.2	26
18	Electron buffer formation through coupling thiosulfate-dependent denitrification with anammox in a single-stage sequencing batch reactor. <i>Bioresource Technology</i> , 2020, 312, 123560.	9.6	24

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19	Comparative study on ciprofloxacin removal in sulfur-mediated biological systems. <i>Chinese Chemical Letters</i> , 2020, 31, 1432-1437.	9.0	14
20	Stress-responses of activated sludge and anaerobic sulfate-reducing bacteria sludge under long-term ciprofloxacin exposure. <i>Water Research</i> , 2019, 164, 114964.	11.3	76
21	Formation and characterization of the micro-size granular sludge in denitrifying sulfur-conversion associated enhanced biological phosphorus removal (DS-EBPR) process. <i>Bioresource Technology</i> , 2019, 291, 121871.	9.6	4
22	Intracellularly stored polysulfur maintains homeostasis of pH and provides bioenergy for phosphorus metabolism in the sulfur-associated enhanced biological phosphorus removal (SEBPR) process. <i>Chemosphere</i> , 2019, 235, 211-219.	8.2	4
23	Fundamental insights into ciprofloxacin adsorption by sulfate-reducing bacteria sludge: Mechanisms and thermodynamics. <i>Chemical Engineering Journal</i> , 2019, 378, 122103.	12.7	54
24	Interactions between tetracycline and extracellular polymeric substances in anammox granular sludge. <i>Bioresource Technology</i> , 2019, 293, 122069.	9.6	23
25	Insights into the Fate and Removal of Antibiotics in Engineered Biological Treatment Systems: A Critical Review. <i>Environmental Science & Technology</i> , 2019, 53, 7234-7264.	10.0	554
26	Insights into pharmaceuticals removal in an anaerobic sulfate-reducing bacteria sludge system. <i>Water Research</i> , 2019, 161, 191-201.	11.3	55
27	Removal of sulfamethoxazole (SMX) in sulfate-reducing flocculent and granular sludge systems. <i>Bioresource Technology</i> , 2019, 288, 121592.	9.6	30
28	Elucidating functional microorganisms and metabolic mechanisms in a novel engineered ecosystem integrating C, N, P and S biotransformation by metagenomics. <i>Water Research</i> , 2019, 148, 219-230.	11.3	54
29	Ciprofloxacin degradation in anaerobic sulfate-reducing bacteria (SRB) sludge system: Mechanism and pathways. <i>Water Research</i> , 2018, 136, 64-74.	11.3	124
30	Elucidating the stimulatory and inhibitory effects of dissolved sulfide on sulfur-oxidizing bacteria (SOB) driven autotrophic denitrification. <i>Water Research</i> , 2018, 133, 165-172.	11.3	84
31	Blackening and odorization of urban rivers: a bio-geochemical process. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	76
32	Understanding the Role of Extracellular Polymeric Substances on Ciprofloxacin Adsorption in Aerobic Sludge, Anaerobic Sludge, and Sulfate-Reducing Bacteria Sludge Systems. <i>Environmental Science & Technology</i> , 2018, 52, 6476-6486.	10.0	153
33	Elucidating the microbial communities and anaerobic mechanisms of a new biomass capable of capturing carbon and sulfur pollutants for sulfate-laden wastewater treatment. <i>Biochemical Engineering Journal</i> , 2018, 136, 18-27.	3.6	4
34	Sulfamethoxazole degradation in anaerobic sulfate-reducing bacteria sludge system. <i>Water Research</i> , 2017, 119, 12-20.	11.3	147
35	Environmental application of biochar: Current status and perspectives. <i>Bioresource Technology</i> , 2017, 246, 110-122.	9.6	536
36	Spatiotemporal heterogeneity of core functional bacteria and their synergetic and competitive interactions in denitrifying sulfur conversion-assisted enhanced biological phosphorus removal. <i>Scientific Reports</i> , 2017, 7, 10927.	3.3	17

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37	Optimizing mixing mode and intensity to prevent sludge flotation in sulfidogenic anaerobic sludge bed reactors. <i>Water Research</i> , 2017, 122, 481-491.	11.3	29
38	Effects of carbon-to-sulfur (C/S) ratio and nitrate (N) dosage on Denitrifying Sulfur cycle-associated Enhanced Biological Phosphorus Removal (DS-EBPR). <i>Scientific Reports</i> , 2016, 6, 23221.	3.3	14
39	Granulation of sulfur-oxidizing bacteria for autotrophic denitrification. <i>Water Research</i> , 2016, 104, 507-519.	11.3	94
40	Granulation of susceptible sludge under carbon deficient conditions: A case of denitrifying sulfur conversion-associated EBPR process. <i>Water Research</i> , 2016, 103, 444-452.	11.3	24
41	Sulfide-driven autotrophic denitrification significantly reduces N ₂ O emissions. <i>Water Research</i> , 2016, 90, 176-184.	11.3	108
42	A modified oxic-settling-anaerobic activated sludge process using gravity thickening for excess sludge reduction. <i>Scientific Reports</i> , 2015, 5, 13972.	3.3	11
43	System evaluation and microbial analysis of a sulfur cycle-based wastewater treatment process for Co-treatment of simple wet flue gas desulfurization wastes with freshwater sewage. <i>Water Research</i> , 2015, 80, 189-199.	11.3	45
44	Investigation on thiosulfate-involved organics and nitrogen removal by a sulfur cycle-based biological wastewater treatment process. <i>Water Research</i> , 2015, 69, 295-306.	11.3	57
45	Beneficial co-treatment of simple wet flue gas desulphurization wastes with freshwater sewage through development of mixed denitrification "SANI" process. <i>Chemical Engineering Journal</i> , 2015, 262, 109-118.	12.7	37
46	Improving nitrogen removal in an ANAMMOX reactor using a permeable reactive biobarrier. <i>Water Research</i> , 2014, 58, 82-91.	11.3	46
47	Simultaneous nitrogen and phosphorus removal in the sulfur cycle-associated Enhanced Biological Phosphorus Removal (EBPR) process. <i>Water Research</i> , 2014, 49, 251-264.	11.3	67
48	A review of biological sulfate conversions in wastewater treatment. <i>Water Research</i> , 2014, 65, 1-21.	11.3	299
49	Denitrification-caused suppression of soluble microbial products (SMP) in MBRs used for biological nitrogen removal. <i>AIChE Journal</i> , 2013, 59, 3569-3573.	3.6	5
50	Characterization of sulfate-reducing granular sludge in the SANI [®] process. <i>Water Research</i> , 2013, 47, 7042-7052.	11.3	92
51	A new biological phosphorus removal process in association with sulfur cycle. <i>Water Research</i> , 2013, 47, 3057-3069.	11.3	42
52	SANI [®] process realizes sustainable saline sewage treatment: Steady state model-based evaluation of the pilot-scale trial of the process. <i>Water Research</i> , 2012, 46, 475-490.	11.3	71
53	The demonstration of a novel sulfur cycle-based wastewater treatment process: Sulfate reduction, autotrophic denitrification, and nitrification integrated (SANI [®]) biological nitrogen removal process. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2778-2789.	3.3	42
54	Microbial community of sulfate-reducing up-flow sludge bed in the SANI [®] process for saline sewage treatment. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 2015-2025.	3.6	38

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55	Pilot scale evaluation of SANI® process for sludge minimization and greenhouse gas reduction in saline sewage treatment. <i>Water Science and Technology</i> , 2011, 63, 2149-2154.	2.5	31
56	A novel sulfate reduction, autotrophic denitrification, nitrification integrated (SANI) process for saline wastewater treatment. <i>Water Research</i> , 2009, 43, 2363-2372.	11.3	185
57	Steady-state model-based evaluation of sulfate reduction, autotrophic denitrification and nitrification integrated (SANI) process. <i>Water Research</i> , 2009, 43, 3613-3621.	11.3	44