Hui Lu

List of Publications by Year
in descending order

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	Insights into the Fate and Removal of Antibiotics in Engineered Biological Treatment Systems: A Critical Review. Environmental Science & Technology, 2019, 53, 7234-7264.	10.0	554
2	Environmental application of biochar: Current status and perspectives. Bioresource Technology, 2017, 246, 110-122.	9.6	536
3	A review of biological sulfate conversions in wastewater treatment. Water Research, 2014, 65, 1-21.	11.3	299
4	A novel sulfate reduction, autotrophic denitrification, nitrification integrated (SANI) process for saline wastewater treatment. Water Research, 2009, 43, 2363-2372.	11.3	185
5	Understanding the Role of Extracellular Polymeric Substances on Ciprofloxacin Adsorption in Aerobic Sludge, Anaerobic Sludge, and Sulfate-Reducing Bacteria Sludge Systems. Environmental Science & Technology, 2018, 52, 6476-6486.	10.0	153
6	Sulfamethoxazole degradation in anaerobic sulfate-reducing bacteria sludge system. Water Research, 2017, 119, 12-20.	11.3	147
7	Ciprofloxacin degradation in anaerobic sulfate-reducing bacteria (SRB) sludge system: Mechanism and pathways. Water Research, 2018, 136, 64-74.	11.3	124
8	Sulfide-driven autotrophic denitrification significantly reduces N2O emissions. Water Research, 2016, 90, 176-184.	11.3	108
9	Granulation of sulfur-oxidizing bacteria for autotrophic denitrification. Water Research, 2016, 104, 507-519.	11.3	94
10	Characterization of sulfate-reducing granular sludge in the SANIÂ® process. Water Research, 2013, 47, 7042-7052.	11.3	92
11	Elucidating the stimulatory and inhibitory effects of dissolved sulfide on sulfur-oxidizing bacteria (SOB) driven autotrophic denitrification. Water Research, 2018, 133, 165-172.	11.3	84
12	Blackening and odorization of urban rivers: a bio-geochemical process. FEMS Microbiology Ecology, 2018, 94, .	2.7	76
13	Stress-responses of activated sludge and anaerobic sulfate-reducing bacteria sludge under long-term ciprofloxacin exposure. Water Research, 2019, 164, 114964.	11.3	76
14	SANIÂ® process realizes sustainable saline sewage treatment: Steady state model-based evaluation of the pilot-scale trial of the process. Water Research, 2012, 46, 475-490.	11.3	71
15	Simultaneous nitrogen and phosphorus removal in the sulfur cycle-associated Enhanced Biological Phosphorus Removal (EBPR) process. Water Research, 2014, 49, 251-264.	11.3	67
16	Ciprofloxacin-degrading Paraclostridium sp. isolated from sulfate-reducing bacteria-enriched sludge: Optimization and mechanism. Water Research, 2021, 191, 116808.	11.3	59
17	Investigation on thiosulfate-involved organics and nitrogen removal by a sulfur cycle-based biological wastewater treatment process. Water Research, 2015, 69, 295-306.	11.3	57
18	Insights into pharmaceuticals removal in an anaerobic sulfate-reducing bacteria sludge system. Water Research, 2019, 161, 191-201.	11.3	55

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19	Fundamental insights into ciprofloxacin adsorption by sulfate-reducing bacteria sludge: Mechanisms and thermodynamics. Chemical Engineering Journal, 2019, 378, 122103.	12.7	54
20	Elucidating functional microorganisms and metabolic mechanisms in a novel engineered ecosystem integrating C, N, P and S biotransformation by metagenomics. Water Research, 2019, 148, 219-230.	11.3	54
21	Improving nitrogen removal in an ANAMMOX reactor using a permeable reactive biobarrier. Water Research, 2014, 58, 82-91.	11.3	46
22	Biotransformation of ibuprofen in biological sludge systems: Investigation of performance and mechanisms. Water Research, 2020, 170, 115303.	11.3	46
23	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. Water Research, 2015, 80, 189-199.	11.3	45
24	Electron distribution in sulfur-driven autotrophic denitrification under different electron donor and acceptor feeding schemes. Chemical Engineering Journal, 2021, 404, 126486.	12.7	45
25	Steady-state model-based evaluation of sulfate reduction, autotrophic denitrification and nitrification integrated (SANI) processâ˜†. Water Research, 2009, 43, 3613-3621.	11.3	44
26	Alleviating sulfide toxicity using biochar during anaerobic treatment of sulfate-laden wastewater. Bioresource Technology, 2020, 301, 122711.	9.6	44
27	The demonstration of a novel sulfur cycleâ€based wastewater treatment process: Sulfate reduction, autotrophic denitrification, and nitrification integrated (SANIÂ®) biological nitrogen removal process. Biotechnology and Bioengineering, 2012, 109, 2778-2789.	3.3	42
28	A new biological phosphorus removal process in association with sulfur cycle. Water Research, 2013, 47, 3057-3069.	11.3	42
29	A Critical Review of Methods for Analyzing Freshwater Eutrophication. Water (Switzerland), 2021, 13, 225.	2.7	42
30	Advances in elemental sulfur-driven bioprocesses for wastewater treatment: From metabolic study to application. Water Research, 2022, 213, 118143.	11.3	42
31	Elemental sulfur-driven autotrophic denitrification for advanced nitrogen removal from mature landfill leachate after PN/A pretreatment. Chemical Engineering Journal, 2021, 410, 128256.	12.7	39
32	Microbial community of sulfate-reducing up-flow sludge bed in the SANIÂ® process for saline sewage treatment. Applied Microbiology and Biotechnology, 2011, 90, 2015-2025.	3.6	38
33	Beneficial co-treatment of simple wet flue gas desulphurization wastes with freshwater sewage through development of mixed denitrificationâ€“SANI process. Chemical Engineering Journal, 2015, 262, 109-118.	12.7	37
34	Pilot scale evaluation of SANIÂ® process for sludge minimization and greenhouse gas reduction in saline sewage treatment. Water Science and Technology, 2011, 63, 2149-2154.	2.5	31
35	Meta-cresol degradation by persulfate through UV/O3 synergistic activation: Contribution of free radicals and degradation pathway. Science of the Total Environment, 2021, 754, 142219.	8.0	31
36	Synergistic biological removal of nitrogen and sulfide from saline mariculture wastewater by halophilic consortia. Chemical Engineering Journal, 2021, 423, 130280.	12.7	31

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37	Removal of sulfamethoxazole (SMX) in sulfate-reducing flocculent and granular sludge systems. Bioresource Technology, 2019, 288, 121592.	9.6	30
38	Optimizing mixing mode and intensity to prevent sludge flotation in sulfidogenic anaerobic sludge bed reactors. Water Research, 2017, 122, 481-491.	11.3	29
39	Correlation of extracellular polymeric substances and microbial community structure in denitrification biofilm exposed to adverse conditions. Microbial Biotechnology, 2020, 13, 1889-1903.	4.2	26
40	Granulation of susceptible sludge under carbon deficient conditions: A case of denitrifying sulfur conversion-associated EBPR process. Water Research, 2016, 103, 444-452.	11.3	24
41	Electron buffer formation through coupling thiosulfate-dependent denitratation with anammox in a single-stage sequencing batch reactor. Bioresource Technology, 2020, 312, 123560.	9.6	24
42	Influence of ibuprofen and its biotransformation products on different biological sludge systems and ecosystem. Environment International, 2021, 146, 106265.	10.0	24
43	Nanobubble technology in anaerobic digestion: A review. Bioresource Technology, 2021, 329, 124916.	9.6	24
44	Interactions between tetracycline and extracellular polymeric substances in anammox granular sludge. Bioresource Technology, 2019, 293, 122069.	9.6	23
45	Micro and nano bubbles promoted biofilm formation with strengthen of COD and TN removal synchronously in a blackened and odorous water. Science of the Total Environment, 2022, 837, 155578.	8.0	22
46	Stress responses of sulfate-reducing bacteria sludge upon exposure to polyethylene microplastics. Water Research, 2022, 220, 118646.	11.3	20
47	Spatiotemporal heterogeneity of core functional bacteria and their synergetic and competitive interactions in denitrifying sulfur conversion-assisted enhanced biological phosphorus removal. Scientific Reports, 2017, 7, 10927.	3.3	17
48	Effects of carbon-to-sulfur (C/S) ratio and nitrate (N) dosage on Denitrifying Sulfur cycle-associated Enhanced Biological Phosphorus Removal (DS-EBPR). Scientific Reports, 2016, 6, 23221.	3.3	14
49	Comparative study on ciprofloxacin removal in sulfur-mediated biological systems. Chinese Chemical Letters, 2020, 31, 1432-1437.	9.0	14
50	A modified oxic-settling-anaerobic activated sludge process using gravity thickening for excess sludge reduction. Scientific Reports, 2015, 5, 13972.	3.3	11
51	Unraveling pharmaceuticals removal in a sulfur-driven autotrophic denitrification process: Performance, kinetics and mechanisms. Chinese Chemical Letters, 2023, 34, 107433.	9.0	9
52	Changes of distribution and chemical speciation of metals in hexavalent chromium loaded algal-bacterial aerobic granular sludge before and after hydrothermal treatment. Bioresource Technology, 2022, 355, 127229.	9.6	8
53	Denitrificationâ€caused suppression of soluble microbial products (SMP) in MBRs used for biological nitrogen removal. AICHE Journal, 2013, 59, 3569-3573.	3.6	5
54	Elucidating the microbial communities and anaerobic mechanisms of a new biomass capable of capturing carbon and sulfur pollutants for sulfate-laden wastewater treatment. Biochemical Engineering Journal, 2018, 136, 18-27.	3.6	4

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55	Formation and characterization of the micro-size granular sludge in denitrifying sulfur-conversion associated enhanced biological phosphorus removal (DS-EBPR) process. Bioresource Technology, 2019, 291, 121871.	9.6	4
56	Intracellularly stored polysulfur maintains homeostasis of pH and provides bioenergy for phosphorus metabolism in the sulfur-associated enhanced biological phosphorus removal (SEBPR) process. Chemosphere, 2019, 235, 211-219.	8.2	4
57	A Systematic Approach to Promote Environmental Engineering Studentsâ€™ Learning in Environmental Molecular Microbiology. Journal of Microbiology and Biology Education, 2021, 22, .	1.0	0