

D Wu

List of Publications by Year in descending order

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43
papers

1,453
citations

257357

24
h-index

330025

37
g-index

43
all docs

43
docs citations

43
times ranked

1014
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale demonstration of the sulfate reduction autotrophic denitrification nitrification integrated (SANIÂ®) process in saline sewage treatment. <i>Water Research</i> , 2016, 100, 496-507.	5.3	142
2	Biological nitrogen removal from wastewater using sulphur-driven autotrophic denitrification. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6023-6039.	1.7	99
3	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.	5.3	84
4	Coupling of sulfur(thiosulfate)-driven denitrification and anammox process to treat nitrate and ammonium contained wastewater. <i>Water Research</i> , 2019, 163, 114854.	5.3	68
5	Simultaneous nitrogen and phosphorus removal in the sulfur cycle-associated Enhanced Biological Phosphorus Removal (EBPR) process. <i>Water Research</i> , 2014, 49, 251-264.	5.3	67
6	Exploration and verification of the feasibility of sulfide-driven partial denitrification coupled with anammox for wastewater treatment. <i>Water Research</i> , 2021, 193, 116905.	5.3	65
7	The long-term effects of hexavalent chromium on anaerobic ammonium oxidation process: Performance inhibition, hexavalent chromium reduction and unexpected nitrite oxidation. <i>Bioresource Technology</i> , 2019, 283, 138-147.	4.8	59
8	Advances in sulfur conversion-associated enhanced biological phosphorus removal in sulfate-rich wastewater treatment: A review. <i>Bioresource Technology</i> , 2019, 285, 121303.	4.8	52
9	Long term performance and dynamics of microbial biofilm communities performing sulfur-oxidizing autotrophic denitrification in a moving-bed biofilm reactor. <i>Water Research</i> , 2019, 166, 115038.	5.3	49
10	Functional bacteria and process metabolism of the Denitrifying Sulfur conversion-associated Enhanced Biological Phosphorus Removal (DS-EBPR) system: An investigation by operating the system from deterioration to restoration. <i>Water Research</i> , 2016, 95, 289-299.	5.3	44
11	Impact of low-thermal pretreatment on physicochemical properties of saline waste activated sludge, hydrolysis of organics and methane yield in anaerobic digestion. <i>Bioresource Technology</i> , 2020, 297, 122423.	4.8	43
12	A new biological phosphorus removal process in association with sulfur cycle. <i>Water Research</i> , 2013, 47, 3057-3069.	5.3	42
13	Achieving rapid thiosulfate-driven denitrification (TDD) in a granular sludge system. <i>Water Research</i> , 2021, 190, 116716.	5.3	42
14	Systematic evaluation of a dynamic sewer process model for prediction of odor formation and mitigation in large-scale pressurized sewers in Hong Kong. <i>Water Research</i> , 2019, 154, 94-103.	5.3	41
15	Elucidating the biofilm properties and biokinetics of a sulfur-oxidizing moving-bed biofilm for mainstream nitrogen removal. <i>Water Research</i> , 2019, 162, 246-257.	5.3	39
16	Sulfidogenic anaerobic digestion of sulfate-laden waste activated sludge: Evaluation on reactor performance and dynamics of microbial community. <i>Bioresource Technology</i> , 2020, 297, 122396.	4.8	37
17	Elucidating the effects of starvation and reactivation on anaerobic sulfidogenic granular sludge: Reactor performance and granular sludge transformation. <i>Water Research</i> , 2019, 151, 44-53.	5.3	31
18	Bioaugmentation of marine anammox bacteria (MAB)-based anaerobic ammonia oxidation by adding Fe(III) in saline wastewater treatment under low temperature. <i>Bioresource Technology</i> , 2020, 295, 122292.	4.8	30

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19	Optimizing mixing mode and intensity to prevent sludge flotation in sulfidogenic anaerobic sludge bed reactors. <i>Water Research</i> , 2017, 122, 481-491.	5.3	29
20	Anaerobic self-forming dynamic membrane bioreactors (AnSFDMBRs) for wastewater treatment – Recent advances, process optimization and perspectives. <i>Bioresource Technology</i> , 2021, 332, 125101.	4.8	29
21	Investigation on sulfide-oxidizing autotrophic denitrification in moving-bed biofilm reactors: An innovative approach and mechanism for the process start-up. <i>International Biodeterioration and Biodegradation</i> , 2019, 140, 90-98.	1.9	27
22	Electrochemical pretreatment (EPT) of waste activated sludge: Extracellular polymeric substances matrix destruction, sludge solubilisation and overall digestibility. <i>Bioresource Technology</i> , 2021, 330, 125000.	4.8	27
23	A new sulfidogenic oxic-settling anaerobic (SOSA) process: The effects of sulfur-cycle bioaugmentation on the operational performance, sludge properties and microbial communities. <i>Water Research</i> , 2019, 162, 30-42.	5.3	26
24	Sludge flotation, its causes and control in granular sludge upflow reactors. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6383-6392.	1.7	25
25	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.	5.3	24
26	Denitrifying sulfur conversion-associated EBPR: Effects of temperature and carbon source on anaerobic metabolism and performance. <i>Water Research</i> , 2018, 141, 9-18.	5.3	22
27	Development of a kinetic model to evaluate thiosulfate-driven denitrification and anammox (TDDA) process. <i>Water Research</i> , 2021, 198, 117155.	5.3	21
28	Identifying the mechanisms of sludge reduction in the sulfidogenic oxic-settling anaerobic (SOSA) process: Side-stream sulfidogenesis-intensified sludge decay and mainstream extended aeration. <i>Water Research</i> , 2021, 189, 116608.	5.3	20
29	Denitrifying sulfur conversion-associated EBPR: The effect of pH on anaerobic metabolism and performance. <i>Water Research</i> , 2017, 123, 687-695.	5.3	18
30	Characterization of a new continuous gas-mixing sulfidogenic anaerobic bioreactor: Hydrodynamics and sludge granulation. <i>Water Research</i> , 2018, 135, 251-261.	5.3	18
31	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.	1.6	17
32	Investigation of multiple polymers in a denitrifying sulfur conversion-EBPR system: The structural dynamics and storage states. <i>Water Research</i> , 2019, 156, 179-187.	5.3	17
33	Application of a moving-bed biofilm reactor for sulfur-oxidizing autotrophic denitrification. <i>Water Science and Technology</i> , 2018, 77, 1027-1034.	1.2	15
34	Elucidating the effect of mixing technologies on dynamics of microbial communities and their correlations with granular sludge properties in a high-rate sulfidogenic anaerobic bioreactor for saline wastewater treatment. <i>Bioresource Technology</i> , 2020, 297, 122397.	4.8	15
35	Life cycle assessment of deploying sludge minimization with (sulfidogenic-)oxic-settling-anaerobic configurations in sewage-sludge management systems. <i>Bioresource Technology</i> , 2021, 335, 125266.	4.8	14
36	Anaerobic digestion of saline waste activated sludge and recovering raw sulfated polysaccharides. <i>Bioresource Technology</i> , 2021, 335, 125255.	4.8	11

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37	Multiple-cycle operation of sulphur-cycle-enhanced biological phosphorus removal to maintain stable performance at high temperatures. <i>Bioresource Technology</i> , 2019, 289, 121736.	4.8	9
38	Investigation on polyphosphate accumulation in the sulfur transformation-centric EBPR (SEBPR) process for treatment of high-temperature saline wastewater. <i>Water Research</i> , 2019, 167, 115138.	5.3	8
39	Phosphorus release and uptake during start-up of a covered and non-aerated sequencing batch reactor with separate feeding of VFA and sulfate. <i>Water Science and Technology</i> , 2012, 65, 840-844.	1.2	7
40	Rational design of sulfidogenic granular sludge reactor with clostridia as dominant bacteria for energy-efficient sulfate-laden wastewater treatment. <i>Bioresource Technology</i> , 2020, 317, 124017.	4.8	7
41	Model-based analysis of sulfur-based denitrification in a moving bed biofilm reactor. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 2948-2955.	1.2	5
42	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.	4.8	4
43	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.	4.2	4