

Min Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,099
citations

218662

26
h-index

254170

43
g-index

65
all docs

65
docs citations

65
times ranked

1346
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery of ammonium and phosphate from urine as value-added fertilizer using wood waste biochar loaded with magnesium oxides. <i>Journal of Cleaner Production</i> , 2018, 187, 205-214.	9.3	174
2	Ubiquity of polystyrene digestion and biodegradation within yellow mealworms, larvae of <i>Tenebrio molitor</i> Linnaeus (Coleoptera: Tenebrionidae). <i>Chemosphere</i> , 2018, 212, 262-271.	8.2	130
3	Improving wastewater management using free nitrous acid (FNA). <i>Water Research</i> , 2020, 171, 115382.	11.3	111
4	A 20-Year Journey of Partial Nitritation and Anammox (PN/A): from Sidestream toward Mainstream. <i>Environmental Science & Technology</i> , 2022, 56, 7522-7531.	10.0	106
5	The precipitation of magnesium potassium phosphate hexahydrate for P and K recovery from synthetic urine. <i>Water Research</i> , 2015, 80, 71-79.	11.3	102
6	Unravelling adaptation of nitrite-oxidizing bacteria in mainstream PN/A process: Mechanisms and counter-strategies. <i>Water Research</i> , 2021, 200, 117239.	11.3	81
7	Nitrite oxidizing bacteria (NOB) contained in influent deteriorate mainstream NOB suppression by sidestream inactivation. <i>Water Research</i> , 2019, 162, 331-338.	11.3	68
8	Achieving Stable Partial Nitritation in an Acidic Nitrifying Bioreactor. <i>Environmental Science & Technology</i> , 2020, 54, 456-463.	10.0	59
9	Adaptation of nitrifying community in activated sludge to free ammonia inhibition and inactivation. <i>Science of the Total Environment</i> , 2020, 728, 138713.	8.0	58
10	Insights into Nitrous Oxide Mitigation Strategies in Wastewater Treatment and Challenges for Wider Implementation. <i>Environmental Science & Technology</i> , 2021, 55, 7208-7224.	10.0	57
11	Ultrasonic Treatment Enhanced Ammonia-Oxidizing Bacterial (AOB) Activity for Nitritation Process. <i>Environmental Science & Technology</i> , 2016, 50, 864-871.	10.0	56
12	Robust Nitritation Sustained by Acid-Tolerant Ammonia-Oxidizing Bacteria. <i>Environmental Science & Technology</i> , 2021, 55, 2048-2056.	10.0	51
13	Critical Factors Facilitating <i>Candidatus</i> Nitrotoga To Be Prevalent Nitrite-Oxidizing Bacteria in Activated Sludge. <i>Environmental Science & Technology</i> , 2020, 54, 15414-15423.	10.0	43
14	An integrated strategy to enhance performance of anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 195, 116977.	11.3	41
15	A green method for the simultaneous recovery of phosphate and potassium from hydrolyzed urine as value-added fertilizer using wood waste. <i>Resources, Conservation and Recycling</i> , 2020, 157, 104793.	10.8	38
16	Free ammonia shock treatment eliminates nitrite-oxidizing bacterial activity for mainstream biofilm nitritation process. <i>Chemical Engineering Journal</i> , 2020, 393, 124682.	12.7	37
17	Efficient nitrogen removal from mainstream wastewater through coupling Partial Nitritation, Anammox and Methane-dependent nitrite/nitrate reduction (PNAM). <i>Water Research</i> , 2021, 206, 117723.	11.3	37
18	Recovery of Phosphorus and Potassium from Source-Separated Urine Using a Fluidized Bed Reactor: Optimization Operation and Mechanism Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3033-3039.	3.7	35

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19	Achieving mainstream nitrogen removal via the nitrite pathway from real municipal wastewater using intermittent ultrasonic treatment. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 406-411.	8.2	35
20	Predictions of the Influent and Operational Conditions for Partial Nitrification with a Model Incorporating pH Dynamics. <i>Environmental Science & Technology</i> , 2018, 52, 6457-6465.	10.0	34
21	Nitrite production from urine for sulfide control in sewers. <i>Water Research</i> , 2017, 122, 447-454.	11.3	33
22	Control sulfide and methane production in sewers based on free ammonia inactivation. <i>Environment International</i> , 2020, 143, 105928.	10.0	33
23	Hydrogen sulfide generation and emission in urban sanitary sewer in China: what factor plays the critical role?. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 839-848.	2.4	32
24	Free nitrous acid pre-treatment enhances anaerobic digestion of waste activated sludge and rheological properties of digested sludge: A pilot-scale study. <i>Water Research</i> , 2020, 172, 115515.	11.3	32
25	Versatility of nitrite/nitrate-dependent anaerobic methane oxidation (n-DAMO): First demonstration with real wastewater. <i>Water Research</i> , 2021, 194, 116912.	11.3	32
26	Effects of ultrasonic treatment on the ammonia-oxidizing bacterial (AOB) growth kinetics. <i>Science of the Total Environment</i> , 2019, 690, 629-635.	8.0	30
27	Use of low frequency and density ultrasound to stimulate partial nitrification and simultaneous nitrification and denitrification. <i>Bioresource Technology</i> , 2013, 146, 537-542.	9.6	28
28	Post-treatment options for anaerobically digested sludge: Current status and future prospect. <i>Water Research</i> , 2021, 205, 117665.	11.3	28
29	Selective enrichment and metagenomic analysis of three novel comammox <i>Nitrospira</i> in a urine-fed membrane bioreactor. <i>ISME Communications</i> , 2021, 1, .	4.2	27
30	Biochar as a Carrier of Struvite Precipitation for Nitrogen and Phosphorus Recovery from Urine. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, .	1.4	23
31	Inactivation kinetics of nitrite-oxidizing bacteria by free nitrous acid. <i>Science of the Total Environment</i> , 2021, 752, 141876.	8.0	23
32	Stoichiometric and kinetic characterization of an acid-tolerant ammonia oxidizer <i>Candidatus Nitrosoglobus</i> . <i>Water Research</i> , 2021, 196, 117026.	11.3	22
33	Transforming anaerobically digested sludge into high-quality biosolids with an integrated physiochemical approach. <i>Resources, Conservation and Recycling</i> , 2022, 184, 106416.	10.8	22
34	Factors Affecting the Crystal Size of Struvite-K Formed in Synthetic Urine Using a Stirred Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 17301-17309.	3.7	21
35	Water Reduction and Nutrient Reconciliation of Hydrolyzed Urine via Direct-Contact Membrane Distillation: Ammonia Loss and Its Control. <i>Journal of Environmental Engineering, ASCE</i> , 2019, 145, .	1.4	21
36	The effects of influent and operational conditions on nitrogen removal in an upflow microaerobic sludge blanket system: A model-based evaluation. <i>Bioresource Technology</i> , 2020, 295, 122225.	9.6	21

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37	Evaluating the excess sludge reduction in activated sludge system with ultrasonic treatment. <i>Water Science and Technology</i> , 2018, 77, 2341-2347.	2.5	20
38	Effect of blending landfill leachate with activated sludge on the domestic wastewater treatment process. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 268-276.	2.4	18
39	Temperature Variations Shape Niche Occupation of <i>Nitrotoga</i> -like Bacteria in Activated Sludge. <i>ACS ES&T Water</i> , 2021, 1, 167-174.	4.6	18
40	Free nitrous acid-based suppression of sulfide production in sewer sediments: In-situ effect mechanism. <i>Science of the Total Environment</i> , 2020, 715, 136871.	8.0	17
41	Generality and diversity on the kinetics, toxicity and DFT studies of sulfate radical-induced transformation of BPA and its analogues. <i>Water Research</i> , 2022, 219, 118506.	11.3	17
42	Increasing the removal efficiency of antibiotic resistance through anaerobic digestion with free nitrous acid pretreatment. <i>Journal of Hazardous Materials</i> , 2022, 438, 129535.	12.4	17
43	Acidic aerobic digestion of anaerobically-digested sludge enabled by a novel ammonia-oxidizing bacterium. <i>Water Research</i> , 2021, 194, 116962.	11.3	16
44	New insight into increased toxicity during ozonation of chlorophenol: The significant contribution of oxidizing intermediates. <i>Science of the Total Environment</i> , 2021, 769, 144569.	8.0	16
45	Centralized iron-dosing into returned sludge brings multifaceted benefits to wastewater management. <i>Water Research</i> , 2021, 203, 117536.	11.3	16
46	Assessing the stability of one-stage PN/A process through experimental and modelling investigations. <i>Science of the Total Environment</i> , 2021, 801, 149740.	8.0	16
47	Wastewater Primary Treatment Using Forward Osmosis Introduces Inhibition to Achieve Stable Mainstream Partial Nitrification. <i>Environmental Science & Technology</i> , 2022, 56, 8663-8672.	10.0	15
48	Feasibility of methane bioconversion to methanol by acid-tolerant ammonia-oxidizing bacteria. <i>Water Research</i> , 2021, 197, 117077.	11.3	12
49	Study on enhanced denitrification using particulate organic matter in membrane bioreactor by mechanism modeling. <i>Chemosphere</i> , 2013, 93, 2669-2674.	8.2	11
50	Insights into complete nitrate removal in one-stage nitrification-anammox by coupling heterotrophic denitrification. <i>Journal of Environmental Management</i> , 2021, 298, 113431.	7.8	11
51	Impact of impurities on vivianite crystallization for phosphate recovery from process water of hydrothermal carbonization of kitchen waste. <i>Resources, Conservation and Recycling</i> , 2022, 185, 106438.	10.8	11
52	Modeling of enhanced denitrification capacity with microbial storage product in MBR systems. <i>Separation and Purification Technology</i> , 2014, 126, 1-6.	7.9	10
53	Bioleaching of toxic metals from anaerobically digested sludge without external chemical addition. <i>Water Research</i> , 2021, 200, 117211.	11.3	10
54	Mesothermal pretreatment using FeCl ₃ enhances methane production from rice straw. <i>Renewable Energy</i> , 2022, 188, 670-677.	8.9	10

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55	Thermal decomposition of struvite pellet by microwave radiation and recycling of its product to remove ammonium and phosphate from urine. <i>Environmental Research</i> , 2020, 188, 109774.	7.5	9
56	Short-chain fatty acid (SCFA) production maximization by modeling thermophilic sludge fermentation. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 11-18.	2.4	8
57	Recovery of ammonium nitrate solution from urine wastewater via novel free nitrous acid (FNA)-mediated two-stage processes. <i>Chemical Engineering Journal</i> , 2022, 440, 135826.	12.7	8
58	<i>Mycolicibacter acidiphilus</i> sp. nov., an extremely acid-tolerant member of the genus <i>Mycolicibacter</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2022, 72, .	1.7	8
59	The impact of ultrasonic treatment on activity of ammonia-oxidizing bacteria and nitrite-oxidizing bacteria in activated sludge. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	7
60	Re-configuring mainstream anammox. <i>Chemical Engineering Journal</i> , 2022, 445, 136817.	12.7	6
61	Synergistic denitrification, partial nitrification - Anammox in a novel A2/O2 reactor for efficient nitrogen removal from low C/N wastewater. <i>Journal of Environmental Management</i> , 2022, 302, 114069.	7.8	5
62	Gravity settling and centrifugation increase the acid buffer capacity of activated sludge. <i>Science of the Total Environment</i> , 2022, 820, 153231.	8.0	3
63	Biodegradation of crude oil by a moderately haloalkaliphilic <i>Acinetobacter</i> strain. <i>Petroleum Science and Technology</i> , 0, , 1-15.	1.5	2
64	Achieving Ammonium Removal Through Anammox-Derived Feammox With Low Demand of Fe(III). <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	1
65	Changes in the Species and Functional Composition of Activated Sludge Communities Revealed Mechanisms of Partial Nitrification Established by Ultrasonication. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	0