Liu Ye

List of Publications by Year
in descending order

67 papers	4,174 citations	109321 35 h-index	110387 64 g-index
68 all docs	68 docs citations	68 times ranked	2697 citing authors

#	Article	IF	Citations
1	Nitrous oxide emissions from wastewater treatment processes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1265-1277.	4.0	358
2	Free Nitrous Acid (FNA)-Based Pretreatment Enhances Methane Production from Waste Activated Sludge. Environmental Science & Technology, 2013, 47, 11897-11904.	10.0	234
3	Side-stream sludge treatment using free nitrous acid selectively eliminates nitrite oxidizing bacteria and achieves the nitrite pathway. Water Research, 2014, 55, 245-255.	11.3	205
4	Electron competition among nitrogen oxides reduction during methanol-utilizing denitrification in wastewater treatment. Water Research, 2013, 47, 3273-3281.	11.3	200
5	Effect of pH on N2O reduction and accumulation during denitrification by methanol utilizing denitrifiers. Water Research, 2012, 46, 4832-4840.	11.3	169
6	Overcoming Nitrite Oxidizing Bacteria Adaptation through Alternating Sludge Treatment with Free Nitrous Acid and Free Ammonia. Environmental Science & Technology, 2019, 53, 1937-1946.	10.0	152
7	The combined effect of dissolved oxygen and nitrite on N2O production by ammonia oxidizing bacteria in an enriched nitrifying sludge. Water Research, 2015, 73, 29-36.	11.3	147
8	Enhancing methane production from waste activated sludge using combined free nitrous acid and heat pre-treatment. Water Research, 2014, 63, 71-80.	11.3	139
9	Identification of the function of extracellular polymeric substances (EPS) in denitrifying phosphorus removal sludge in the presence of copper ion. Water Research, 2015, 73, 252-264.	11.3	130
10	The effect of dissolved oxygen on N 2 O production by ammonia-oxidizing bacteria in an enriched nitrifying sludge. Water Research, 2014, 66, 12-21.	11.3	123
11	Improving wastewater management using free nitrous acid (FNA). Water Research, 2020, 171, 115382.	11.3	111
12	Free nitrous acid inhibition on the aerobic metabolism of poly-phosphate accumulating organisms. Water Research, 2010, 44, 6063-6072.	11.3	109
13	Effect of nitrate recycling ratio on simultaneous biological nutrient removal in a novel anaerobic/anoxic/oxic (A2/O)-biological aerated filter (BAF) system. Bioresource Technology, 2011, 102, 5722-5727.	9.6	109
14	Mathematical Modeling of Nitrous Oxide (N₂O) Emissions from Full-Scale Wastewater Treatment Plants. Environmental Science & Technology, 2013, 47, 7795-7803.	10.0	102
15	The combined effects of COD/N ratio and nitrate recycling ratio on nitrogen and phosphorus removal in anaerobic/anoxic/aerobic (A2/O)-biological aerated filter (BAF) systems. Biochemical Engineering Journal, 2015, 93, 235-242.	3.6	96
16	Improving secondary sludge biodegradability using free nitrous acid treatment. Bioresource Technology, 2012, 116, 92-98.	9.6	93
17	Producing free nitrous acid â€“ A green and renewable biocidal agent â€“ From anaerobic digester liquor. Chemical Engineering Journal, 2015, 259, 62-69.	12.7	82
18	Biological sludge reduction and enhanced nutrient removal in a pilot-scale system with 2-step sludge alkaline fermentation and A2O process. Bioresource Technology, 2011, 102, 4091-4097.	9.6	77

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19	Quantifying nitrous oxide production pathways in wastewater treatment systems using isotope technology â€“ A critical review. Water Research, 2017, 122, 96-113.	11.3	76
20	A free nitrous acid (FNA)-based technology for reducing sludge production. Water Research, 2013, 47, 3663-3672.	11.3	74
21	Determination effect of influent salinity and inhibition time on partial nitrification in a sequencing batch reactor treating saline sewage. Desalination, 2009, 246, 556-566.	8.2	69
22	Nitrite oxidizing bacteria (NOB) contained in influent deteriorate mainstream NOB suppression by sidestream inactivation. Water Research, 2019, 162, 331-338.	11.3	68
23	Long-term impact of anaerobic reaction time on the performance and granular characteristics of granular denitrifying biological phosphorus removal systems. Water Research, 2013, 47, 5326-5337.	11.3	65
24	Heterotrophic denitrification plays an important role in N2O production from nitritation reactors treating anaerobic sludge digestion liquor. Water Research, 2014, 62, 202-210.	11.3	62
25	The effect of free nitrous acid on the anabolic and catabolic processes of glycogen accumulating organisms. Water Research, 2010, 44, 2901-2909.	11.3	59
26	Enhanced lipid extraction from algae using free nitrous acid pretreatment. Bioresource Technology, 2014, 159, 36-40.	9.6	58
27	Insights into Nitrous Oxide Mitigation Strategies in Wastewater Treatment and Challenges for Wider Implementation. Environmental Science & Technology, 2021, 55, 7208-7224.	10.0	57
28	Effects of free nitrous acid treatment conditions on the nitrite pathway performance in mainstream wastewater treatment. Science of the Total Environment, 2018, 644, 360-370.	8.0	56
29	Full-Scale Modeling Explaining Large Spatial Variations of Nitrous Oxide Fluxes in a Step-Feed Plug-Flow Wastewater Treatment Reactor. Environmental Science & Technology, 2015, 49, 9176-9184.	10.0	49
30	Individual and combined effect of salinity and nitrite on freshwater Anammox bacteria (FAB). Water Research, 2020, 169, 114931.	11.3	48
31	Mitigating nitrous oxide emissions at a full-scale wastewater treatment plant. Water Research, 2020, 185, 116196.	11.3	48
32	A novel methodology to quantify nitrous oxide emissions from full-scale wastewater treatment systems with surface aerators. Water Research, 2014, 48, 257-268.	11.3	47
33	Nitric oxide and nitrous oxide emissions from a full-scale activated sludge anaerobic/anoxic/oxic process. Chemical Engineering Journal, 2016, 289, 330-340.	12.7	47
34	Salinity effect on freshwater Anammox bacteria: Ionic stress and ion composition. Water Research, 2021, 188, 116432.	11.3	46
35	Increasing capacity of an anaerobic sludge digester through FNA pre-treatment of thickened waste activated sludge. Water Research, 2019, 149, 406-413.	11.3	45
36	N2O production by ammonia oxidizing bacteria in an enriched nitrifying sludge linearly depends on inorganic carbon concentration. Water Research, 2015, 74, 58-66.	11.3	37

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37	Comparison of endogenous metabolism during long-term anaerobic starvation of nitrite/nitrate cultivated denitrifying phosphorus removal sludges. Water Research, 2015, 68, 374-386.	11.3	36
38	Nitrite survival and nitrous oxide production of denitrifying phosphorus removal sludges in long-term nitrite/nitrate-fed sequencing batch reactors. Water Research, 2014, 67, 33-45.	11.3	34
39	Effect of free nitrous acid pre-treatment on primary sludge biodegradability and its implications. Chemical Engineering Journal, 2016, 290, 31-36.	12.7	34
40	Combined free nitrous acid and hydrogen peroxide pre-treatment of waste activated sludge enhances methane production via organic molecule breakdown. Scientific Reports, 2015, 5, 16631.	3.3	31
41	Self-Sustained Nitrite Accumulation at Low pH Greatly Enhances Volatile Solids Destruction and Nitrogen Removal in Aerobic Sludge Digestion. Environmental Science & Technology, 2019, 53, 1225-1234.	10.0	30
42	Effects of Salt on Microbial Populations and Treatment Performance in Purifying Saline Sewage Using the MUCT Process. Clean - Soil, Air, Water, 2009, 37, 649-656.	1.1	28
43	Effect of H₂S on N₂O Reduction and Accumulation during Denitrification by Methanol Utilizing Denitrifiers. Environmental Science & Technology, 2013, 47, 130710143655002.	10.0	28
44	Selection of mathematical models for N2O production by ammonia oxidizing bacteria under varying dissolved oxygen and nitrite concentrations. Chemical Engineering Journal, 2015, 281, 661-668.	12.7	27
45	A comprehensive carbon footprint analysis of different wastewater treatment plant configurations. Environmental Research, 2022, 214, 113818.	7.5	24
46	An Integrated First Principal and Deep Learning Approach for Modeling Nitrous Oxide Emissions from Wastewater Treatment Plants. Environmental Science & Technology, 2022, 56, 2816-2826.	10.0	23
47	Achieving combined biological short-cut nitrogen and phosphorus removal in a one sludge system with side-stream sludge treatment. Water Research, 2021, 203, 117563.	11.3	22
48	The effect of free nitrous acid on key anaerobic processes in enhanced biological phosphorus removal systems. Bioresource Technology, 2013, 130, 382-389.	9.6	21
49	Strategies for enhanced deammonification performance and reduced nitrous oxide emissions. Bioresource Technology, 2017, 236, 174-185.	9.6	16
50	Achieving stable operation and shortcut nitrogen removal in a long-term operated aerobic forward osmosis membrane bioreactor (FOMBR) for treating municipal wastewater. Chemosphere, 2020, 260, 127581.	8.2	16
51	Recovery of Nitrous Oxide from Wastewater Treatment: Current Status and Perspectives. ACS ES&T Water, 2021, 1, 240-250.	4.6	16
52	Centralized iron-dosing into returned sludge brings multifaceted benefits to wastewater management. Water Research, 2021, 203, 117536.	11.3	16
53	Unravelling the spatial variation of nitrous oxide emissions from a step-feed plug-flow full scale wastewater treatment plant. Scientific Reports, 2016, 6, 20792.	3.3	15
54	Adaptation and evolution of freshwater Anammox communities treating saline/brackish wastewater. Water Research, 2021, 207, 117815.	11.3	15

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55	Wastewater Primary Treatment Using Forward Osmosis Introduces Inhibition to Achieve Stable Mainstream Partial Nitrification. Environmental Science & Technology, 2022, 56, 8663-8672.	10.0	15
56	Evaluating the membrane fouling formation and chemical cleaning strategy in forward osmosis membrane filtration treating domestic sewage. Environmental Science: Water Research and Technology, 2018, 4, 2092-2103.	2.4	14
57	Toward Mainstream Anammox by Integrating Sidestream Treatment. Environmental Science & Technology, 2022, 56, 10553-10556.	10.0	14
58	Nitrogen removal via nitrite in domestic wastewater treatment using combined salt inhibition and on-line process control. Water Science and Technology, 2009, 60, 1633-1639.	2.5	12
59	Economic, energy and carbon footprint assessment of integrated forward osmosis membrane bioreactor (FOMBR) process in urban wastewater treatment. Environmental Science: Water Research and Technology, 2020, 6, 153-165.	2.4	10
60	Enhancing post anaerobic digestion of full-scale anaerobically digested sludge using free nitrous acid treatment. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 713-717.	3.0	9
61	Sludge-Drying Lagoons: a Potential Significant Methane Source in Wastewater Treatment Plants. Environmental Science & Technology, 2016, 50, 1368-1375.	10.0	7
62	Using excess sludge as carbon source for enhanced nitrogen removal and sludge reduction with hydrolysis technology. Water Science and Technology, 2010, 62, 1536-1543.	2.5	5
63	Evaluating a strategy for maintaining nitrifier activity during long-term starvation in a moving bed biofilm reactor (MBBR) treating reverse osmosis concentrate. Water Science and Technology, 2012, 66, 837-842.	2.5	4
64	Could nitrite/free nitrous acid favour GAOs over PAOs in enhanced biological phosphorus removal systems?. Water Science and Technology, 2011, 63, 345-351.	2.5	3
65	The Effect of Free Nitrous Acid on the Anaerobic Metabolism of Polyphosphate Accumulating Organisms (PAOs) and Glycogen Accumulating Organisms (GAOs). Proceedings of the Water Environment Federation, 2011, 2011, 18-30.	0.0	1
66	Perspectives on fugitive GHGs reduction from urban wastewater systems. , 2022, , 245-257.		1
67	A green, hybrid cleaning strategy for the mitigation of biofouling deposition in the elevated salinity forward osmosis membrane bioreactor (FOMBR) operation. Chemosphere, 2021, 288, 132612.	8.2	0