

Liu Ye

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/228513/publications.pdf>

Version: 2024-02-01

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	An Integrated First Principal and Deep Learning Approach for Modeling Nitrous Oxide Emissions from Wastewater Treatment Plants. <i>Environmental Science & Technology</i> , 2022, 56, 2816-2826.	10.0	23
2	Perspectives on fugitive GHGs reduction from urban wastewater systems. , 2022, , 245-257.		1
3	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
4	A comprehensive carbon footprint analysis of different wastewater treatment plant configurations. <i>Environmental Research</i> , 2022, 214, 113818.	7.5	24
5	Toward Mainstream Anammox by Integrating Sidestream Treatment. <i>Environmental Science & Technology</i> , 2022, 56, 10553-10556.	10.0	14
6	Salinity effect on freshwater Anammox bacteria: Ionic stress and ion composition. <i>Water Research</i> , 2021, 188, 116432.	11.3	46
7	Recovery of Nitrous Oxide from Wastewater Treatment: Current Status and Perspectives. <i>ACS ES&T Water</i> , 2021, 1, 240-250.	4.6	16
8	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
9	Centralized iron-dosing into returned sludge brings multifaceted benefits to wastewater management. <i>Water Research</i> , 2021, 203, 117536.	11.3	16
10	Achieving combined biological short-cut nitrogen and phosphorus removal in a one sludge system with side-stream sludge treatment. <i>Water Research</i> , 2021, 203, 117563.	11.3	22
11	A green, hybrid cleaning strategy for the mitigation of biofouling deposition in the elevated salinity forward osmosis membrane bioreactor (FOMBR) operation. <i>Chemosphere</i> , 2021, 288, 132612.	8.2	0
12	Adaptation and evolution of freshwater Anammox communities treating saline/brackish wastewater. <i>Water Research</i> , 2021, 207, 117815.	11.3	15
13	Individual and combined effect of salinity and nitrite on freshwater Anammox bacteria (FAB). <i>Water Research</i> , 2020, 169, 114931.	11.3	48
14	Economic, energy and carbon footprint assessment of integrated forward osmosis membrane bioreactor (FOMBR) process in urban wastewater treatment. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 153-165.	2.4	10
15	Improving wastewater management using free nitrous acid (FNA). <i>Water Research</i> , 2020, 171, 115382.	11.3	111
16	Mitigating nitrous oxide emissions at a full-scale wastewater treatment plant. <i>Water Research</i> , 2020, 185, 116196.	11.3	48
17	Achieving stable operation and shortcut nitrogen removal in a long-term operated aerobic forward osmosis membrane bioreactor (FOMBR) for treating municipal wastewater. <i>Chemosphere</i> , 2020, 260, 127581.	8.2	16
18	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

#	ARTICLE	IF	CITATIONS
19	Self-Sustained Nitrite Accumulation at Low pH Greatly Enhances Volatile Solids Destruction and Nitrogen Removal in Aerobic Sludge Digestion. <i>Environmental Science & Technology</i> , 2019, 53, 1225-1234.	10.0	30
20	Increasing capacity of an anaerobic sludge digester through FNA pre-treatment of thickened waste activated sludge. <i>Water Research</i> , 2019, 149, 406-413.	11.3	45
21	Overcoming Nitrite Oxidizing Bacteria Adaptation through Alternating Sludge Treatment with Free Nitrous Acid and Free Ammonia. <i>Environmental Science & Technology</i> , 2019, 53, 1937-1946.	10.0	152
22	Evaluating the membrane fouling formation and chemical cleaning strategy in forward osmosis membrane filtration treating domestic sewage. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 2092-2103.	2.4	14
23	Effects of free nitrous acid treatment conditions on the nitrite pathway performance in mainstream wastewater treatment. <i>Science of the Total Environment</i> , 2018, 644, 360-370.	8.0	56
24	Quantifying nitrous oxide production pathways in wastewater treatment systems using isotope technology – A critical review. <i>Water Research</i> , 2017, 122, 96-113.	11.3	76
25	Strategies for enhanced deammonification performance and reduced nitrous oxide emissions. <i>Bioresource Technology</i> , 2017, 236, 174-185.	9.6	16
26	Unravelling the spatial variation of nitrous oxide emissions from a step-feed plug-flow full scale wastewater treatment plant. <i>Scientific Reports</i> , 2016, 6, 20792.	3.3	15
27	Enhancing post anaerobic digestion of full-scale anaerobically digested sludge using free nitrous acid treatment. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 713-717.	3.0	9
28	Sludge-Drying Lagoons: a Potential Significant Methane Source in Wastewater Treatment Plants. <i>Environmental Science & Technology</i> , 2016, 50, 1368-1375.	10.0	7
29	Effect of free nitrous acid pre-treatment on primary sludge biodegradability and its implications. <i>Chemical Engineering Journal</i> , 2016, 290, 31-36.	12.7	34
30	Nitric oxide and nitrous oxide emissions from a full-scale activated sludge anaerobic/anoxic/oxic process. <i>Chemical Engineering Journal</i> , 2016, 289, 330-340.	12.7	47
31	Combined free nitrous acid and hydrogen peroxide pre-treatment of waste activated sludge enhances methane production via organic molecule breakdown. <i>Scientific Reports</i> , 2015, 5, 16631.	3.3	31
32	N ₂ O production by ammonia oxidizing bacteria in an enriched nitrifying sludge linearly depends on inorganic carbon concentration. <i>Water Research</i> , 2015, 74, 58-66.	11.3	37
33	Identification of the function of extracellular polymeric substances (EPS) in denitrifying phosphorus removal sludge in the presence of copper ion. <i>Water Research</i> , 2015, 73, 252-264.	11.3	130
34	The combined effect of dissolved oxygen and nitrite on N ₂ O production by ammonia oxidizing bacteria in an enriched nitrifying sludge. <i>Water Research</i> , 2015, 73, 29-36.	11.3	147
35	Selection of mathematical models for N ₂ O production by ammonia oxidizing bacteria under varying dissolved oxygen and nitrite concentrations. <i>Chemical Engineering Journal</i> , 2015, 281, 661-668.	12.7	27
36	Full-Scale Modeling Explaining Large Spatial Variations of Nitrous Oxide Fluxes in a Step-Feed Plug-Flow Wastewater Treatment Reactor. <i>Environmental Science & Technology</i> , 2015, 49, 9176-9184.	10.0	49

#	ARTICLE	IF	CITATIONS
37	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. <i>Biochemical Engineering Journal</i> , 2015, 93, 235-242.	3.6	96
38	Comparison of endogenous metabolism during long-term anaerobic starvation of nitrite/nitrate cultivated denitrifying phosphorus removal sludges. <i>Water Research</i> , 2015, 68, 374-386.	11.3	36
39	Producing free nitrous acid "A green and renewable biocidal agent" From anaerobic digester liquor. <i>Chemical Engineering Journal</i> , 2015, 259, 62-69.	12.7	82
40	Enhanced lipid extraction from algae using free nitrous acid pretreatment. <i>Bioresource Technology</i> , 2014, 159, 36-40.	9.6	58
41	Side-stream sludge treatment using free nitrous acid selectively eliminates nitrite oxidizing bacteria and achieves the nitrite pathway. <i>Water Research</i> , 2014, 55, 245-255.	11.3	205
42	A novel methodology to quantify nitrous oxide emissions from full-scale wastewater treatment systems with surface aerators. <i>Water Research</i> , 2014, 48, 257-268.	11.3	47
43	The effect of dissolved oxygen on N ₂ O production by ammonia-oxidizing bacteria in an enriched nitrifying sludge. <i>Water Research</i> , 2014, 66, 12-21.	11.3	123
44	Enhancing methane production from waste activated sludge using combined free nitrous acid and heat pre-treatment. <i>Water Research</i> , 2014, 63, 71-80.	11.3	139
45	Nitrite survival and nitrous oxide production of denitrifying phosphorus removal sludges in long-term nitrite/nitrate-fed sequencing batch reactors. <i>Water Research</i> , 2014, 67, 33-45.	11.3	34
46	Heterotrophic denitrification plays an important role in N ₂ O production from nitrification reactors treating anaerobic sludge digestion liquor. <i>Water Research</i> , 2014, 62, 202-210.	11.3	62
47	Electron competition among nitrogen oxides reduction during methanol-utilizing denitrification in wastewater treatment. <i>Water Research</i> , 2013, 47, 3273-3281.	11.3	200
48	Free Nitrous Acid (FNA)-Based Pretreatment Enhances Methane Production from Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2013, 47, 11897-11904.	10.0	234
49	The effect of free nitrous acid on key anaerobic processes in enhanced biological phosphorus removal systems. <i>Bioresource Technology</i> , 2013, 130, 382-389.	9.6	21
50	A free nitrous acid (FNA)-based technology for reducing sludge production. <i>Water Research</i> , 2013, 47, 3663-3672.	11.3	74
51	Long-term impact of anaerobic reaction time on the performance and granular characteristics of granular denitrifying biological phosphorus removal systems. <i>Water Research</i> , 2013, 47, 5326-5337.	11.3	65
52	Mathematical Modeling of Nitrous Oxide (N ₂ O) Emissions from Full-Scale Wastewater Treatment Plants. <i>Environmental Science & Technology</i> , 2013, 47, 7795-7803.	10.0	102
53	Effect of H ₂ S on N ₂ O Reduction and Accumulation during Denitrification by Methanol Utilizing Denitrifiers. <i>Environmental Science & Technology</i> , 2013, 47, 130710143655002.	10.0	28
54	Evaluating a strategy for maintaining nitrifier activity during long-term starvation in a moving bed biofilm reactor (MBBR) treating reverse osmosis concentrate. <i>Water Science and Technology</i> , 2012, 66, 837-842.	2.5	4

#	ARTICLE	IF	CITATIONS
55	Nitrous oxide emissions from wastewater treatment processes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1265-1277.	4.0	358
56	Effect of pH on N ₂ O reduction and accumulation during denitrification by methanol utilizing denitrifiers. <i>Water Research</i> , 2012, 46, 4832-4840.	11.3	169
57	Improving secondary sludge biodegradability using free nitrous acid treatment. <i>Bioresource Technology</i> , 2012, 116, 92-98.	9.6	93
58	Biological sludge reduction and enhanced nutrient removal in a pilot-scale system with 2-step sludge alkaline fermentation and A ₂ O process. <i>Bioresource Technology</i> , 2011, 102, 4091-4097.	9.6	77
59	Effect of nitrate recycling ratio on simultaneous biological nutrient removal in a novel anaerobic/anoxic/oxic (A ₂ /O)-biological aerated filter (BAF) system. <i>Bioresource Technology</i> , 2011, 102, 5722-5727.	9.6	109
60	The Effect of Free Nitrous Acid on the Anaerobic Metabolism of Polyphosphate Accumulating Organisms (PAOs) and Glycogen Accumulating Organisms (GAOs). <i>Proceedings of the Water Environment Federation</i> , 2011, 2011, 18-30.	0.0	1
61	Could nitrite/free nitrous acid favour GAOs over PAOs in enhanced biological phosphorus removal systems?. <i>Water Science and Technology</i> , 2011, 63, 345-351.	2.5	3
62	Using excess sludge as carbon source for enhanced nitrogen removal and sludge reduction with hydrolysis technology. <i>Water Science and Technology</i> , 2010, 62, 1536-1543.	2.5	5
63	The effect of free nitrous acid on the anabolic and catabolic processes of glycogen accumulating organisms. <i>Water Research</i> , 2010, 44, 2901-2909.	11.3	59
64	Free nitrous acid inhibition on the aerobic metabolism of poly-phosphate accumulating organisms. <i>Water Research</i> , 2010, 44, 6063-6072.	11.3	109
65	Nitrogen removal via nitrite in domestic wastewater treatment using combined salt inhibition and on-line process control. <i>Water Science and Technology</i> , 2009, 60, 1633-1639.	2.5	12
66	Effects of Salt on Microbial Populations and Treatment Performance in Purifying Saline Sewage Using the MUCT Process. <i>Clean - Soil, Air, Water</i> , 2009, 37, 649-656.	1.1	28
67	Determination effect of influent salinity and inhibition time on partial nitrification in a sequencing batch reactor treating saline sewage. <i>Desalination</i> , 2009, 246, 556-566.	8.2	69