

Zhiguo Yuan

List of Publications by Year in descending order

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485
papers

34,593
citations

1994

101
h-index

6654

156
g-index

491
all docs

491
docs citations

491
times ranked

15951
citing authors

#	ARTICLE	IF	CITATIONS
1	Anaerobic oxidation of methane coupled to nitrate reduction in a novel archaeal lineage. <i>Nature</i> , 2013, 500, 567-570.	27.8	1,029
2	Advances in enhanced biological phosphorus removal: From micro to macro scale. <i>Water Research</i> , 2007, 41, 2271-2300.	11.3	998
3	Metagenomic analysis reveals wastewater treatment plants as hotspots of antibiotic resistance genes and mobile genetic elements. <i>Water Research</i> , 2017, 123, 468-478.	11.3	604
4	Microbial fuel cells for simultaneous carbon and nitrogen removal. <i>Water Research</i> , 2008, 42, 3013-3024.	11.3	412
5	Simultaneous nitrification, denitrification, and phosphorus removal in a lab-scale sequencing batch reactor. <i>Biotechnology and Bioengineering</i> , 2003, 84, 170-178.	3.3	391
6	Phosphorus recovery from wastewater through microbial processes. <i>Current Opinion in Biotechnology</i> , 2012, 23, 878-883.	6.6	360
7	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
8	Nitrous oxide generation in full-scale biological nutrient removal wastewater treatment plants. <i>Water Research</i> , 2010, 44, 831-844.	11.3	352
9	Simultaneous nitrification, denitrification and carbon removal in microbial fuel cells. <i>Water Research</i> , 2010, 44, 2970-2980.	11.3	341
10	Partial nitrification to nitrite using low dissolved oxygen concentration as the main selection factor. <i>Biodegradation</i> , 2008, 19, 303-312.	3.0	336
11	Kinetic characterisation of an enriched <i>Nitrospira</i> culture with comparison to <i>Nitrobacter</i> . <i>Water Research</i> , 2007, 41, 3033-3042.	11.3	331
12	Dissecting microbial community structure and methane-producing pathways of a full-scale anaerobic reactor digesting activated sludge from wastewater treatment by metagenomic sequencing. <i>Microbial Cell Factories</i> , 2015, 14, 33.	4.0	323
13	Modeling the PAO's GAO competition: Effects of carbon source, pH and temperature. <i>Water Research</i> , 2009, 43, 450-462.	11.3	309
14	Decolorization of Azo Dyes in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2009, 43, 5137-5143.	10.0	299
15	A methanotrophic archaeon couples anaerobic oxidation of methane to Fe(III) reduction. <i>ISME Journal</i> , 2018, 12, 1929-1939.	9.8	266
16	Methane formation in sewer systems. <i>Water Research</i> , 2008, 42, 1421-1430.	11.3	254
17	Metabolic model for glycogen-accumulating organisms in anaerobic/aerobic activated sludge systems. <i>Biotechnology and Bioengineering</i> , 2003, 81, 92-105.	3.3	251
18	Non-catalyzed cathodic oxygen reduction at graphite granules in microbial fuel cells. <i>Electrochimica Acta</i> , 2007, 53, 598-603.	5.2	250

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19	Antiepileptic drug carbamazepine promotes horizontal transfer of plasmid-borne multi-antibiotic resistance genes within and across bacterial genera. <i>ISME Journal</i> , 2019, 13, 509-522.	9.8	245
20	Optimisation of poly- β -hydroxyalkanoate analysis using gas chromatography for enhanced biological phosphorus removal systems. <i>Journal of Chromatography A</i> , 2005, 1070, 131-136.	3.7	244
21	Gas diffusion electrodes (GDEs) for electrochemical reduction of carbon dioxide, carbon monoxide, and dinitrogen to value-added products: a review. <i>Energy and Environmental Science</i> , 2021, 14, 1959-2008.	30.8	243
22	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
23	Comparison of acetate and propionate uptake by polyphosphate accumulating organisms and glycogen accumulating organisms. <i>Biotechnology and Bioengineering</i> , 2005, 91, 162-168.	3.3	233
24	Electron and Carbon Balances in Microbial Fuel Cells Reveal Temporary Bacterial Storage Behavior During Electricity Generation. <i>Environmental Science & Technology</i> , 2007, 41, 2915-2921.	10.0	231
25	Free Nitrous Acid Inhibition on Nitrous Oxide Reduction by a Denitrifying-Enhanced Biological Phosphorus Removal Sludge. <i>Environmental Science & Technology</i> , 2008, 42, 8260-8265.	10.0	222
26	Achieving Mainstream Nitrogen Removal through Coupling Anammox with Denitrification. <i>Environmental Science & Technology</i> , 2017, 51, 8405-8413.	10.0	222
27	Simultaneous nitrification, denitrification, and phosphorus removal from nutrient-rich industrial wastewater using granular sludge. <i>Biotechnology and Bioengineering</i> , 2008, 100, 529-541.	3.3	215
28	Nitrogen Removal from Wastewater by Coupling Anammox and Methane-Dependent Denitrification in a Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2013, 47, 11577-11583.	10.0	214
29	Obtaining highly enriched cultures of <i>Candidatus Accumulibacter phosphatus</i> through alternating carbon sources. <i>Water Research</i> , 2006, 40, 3838-3848.	11.3	207
30	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
31	Anaerobic methane oxidation coupled to manganese reduction by members of the <i>Methanoperedenaceae</i> . <i>ISME Journal</i> , 2020, 14, 1030-1041.	9.8	203
32	Electron competition among nitrogen oxides reduction during methanol-utilizing denitrification in wastewater treatment. <i>Water Research</i> , 2013, 47, 3273-3281.	11.3	200
33	Effect of free ammonia on the respiration and growth processes of an enriched <i>Nitrobacter</i> culture. <i>Water Research</i> , 2007, 41, 826-834.	11.3	198
34	Enrichment of denitrifying anaerobic methane oxidizing microorganisms. <i>Environmental Microbiology Reports</i> , 2009, 1, 377-384.	2.4	196
35	Reducing sewer corrosion through integrated urban water management. <i>Science</i> , 2014, 345, 812-814.	12.6	194
36	Achieving nitrogen removal via nitrite in a pilot-scale continuous pre-denitrification plant. <i>Water Research</i> , 2009, 43, 563-572.	11.3	190

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37	N ₂ O production rate of an enriched ammonia-oxidising bacteria culture exponentially correlates to its ammonia oxidation rate. <i>Water Research</i> , 2012, 46, 3409-3419.	11.3	190
38	Effect of free ammonia and free nitrous acid concentration on the anabolic and catabolic processes of an enriched <i>Nitrosomonas</i> culture. <i>Biotechnology and Bioengineering</i> , 2006, 95, 830-839.	3.3	186
39	Syntrophic Processes Drive the Conversion of Glucose in Microbial Fuel Cell Anodes. <i>Environmental Science & Technology</i> , 2008, 42, 7937-7943.	10.0	186
40	Achieving Stable Mainstream Nitrogen Removal via the Nitrite Pathway by Sludge Treatment Using Free Ammonia. <i>Environmental Science & Technology</i> , 2017, 51, 9800-9807.	10.0	186
41	The Inhibitory Effects of Free Nitrous Acid on the Energy Generation and Growth Processes of an Enriched <i>Nitrobacter</i> Culture. <i>Environmental Science & Technology</i> , 2006, 40, 4442-4448.	10.0	185
42	Triclosan at environmentally relevant concentrations promotes horizontal transfer of multidrug resistance genes within and across bacterial genera. <i>Environment International</i> , 2018, 121, 1217-1226.	10.0	182
43	Sequential anode-cathode configuration improves cathodic oxygen reduction and effluent quality of microbial fuel cells. <i>Water Research</i> , 2008, 42, 1387-1396.	11.3	181
44	Anaerobic metabolism of propionate by polyphosphate-accumulating organisms in enhanced biological phosphorus removal systems. <i>Biotechnology and Bioengineering</i> , 2005, 91, 43-53.	3.3	179
45	Demonstration of nitrogen removal via nitrite in a sequencing batch reactor treating domestic wastewater. <i>Water Research</i> , 2008, 42, 2166-2176.	11.3	179
46	Both silver ions and silver nanoparticles facilitate the horizontal transfer of plasmid-mediated antibiotic resistance genes. <i>Water Research</i> , 2020, 169, 115229.	11.3	179
47	Aerobic sludge granulation: A tale of two polysaccharides?. <i>Water Research</i> , 2012, 46, 4803-4813.	11.3	177
48	Competition between polyphosphate and glycogen accumulating organisms in enhanced biological phosphorus removal systems with acetate and propionate as carbon sources. <i>Journal of Biotechnology</i> , 2006, 123, 22-32.	3.8	174
49	Copper nanoparticles and copper ions promote horizontal transfer of plasmid-mediated multi-antibiotic resistance genes across bacterial genera. <i>Environment International</i> , 2019, 129, 478-487.	10.0	171
50	The strong biocidal effect of free nitrous acid on anaerobic sewer biofilms. <i>Water Research</i> , 2011, 45, 3735-3743.	11.3	169
51	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
52	The effect of pH on the competition between polyphosphate-accumulating organisms and glycogen-accumulating organisms. <i>Water Research</i> , 2005, 39, 3727-3737.	11.3	167
53	Effects of long-term pH elevation on the sulfate-reducing and methanogenic activities of anaerobic sewer biofilms. <i>Water Research</i> , 2009, 43, 2549-2557.	11.3	165
54	Free ammonia enhances dark fermentative hydrogen production from waste activated sludge. <i>Water Research</i> , 2018, 133, 272-281.	11.3	163

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55	Identification and comparison of aerobic and denitrifying polyphosphate-accumulating organisms. <i>Biotechnology and Bioengineering</i> , 2003, 83, 140-148.	3.3	162
56	Biofilm stratification during simultaneous nitrification and denitrification (SND) at a biocathode. <i>Bioresource Technology</i> , 2011, 102, 334-341.	9.6	160
57	Enrichment of denitrifying glycogen-accumulating organisms in anaerobic/anoxic activated sludge system. <i>Biotechnology and Bioengineering</i> , 2003, 81, 397-404.	3.3	159
58	Chemical dosing for sulfide control in Australia: An industry survey. <i>Water Research</i> , 2011, 45, 6564-6574.	11.3	156
59	Sulfur transformation in rising main sewers receiving nitrate dosage. <i>Water Research</i> , 2009, 43, 4430-4440.	11.3	155
60	Inhibition of sulfate-reducing and methanogenic activities of anaerobic sewer biofilms by ferric iron dosing. <i>Water Research</i> , 2009, 43, 4123-4132.	11.3	153
61	The effect of pH on N ₂ O production under aerobic conditions in a partial nitrification system. <i>Water Research</i> , 2011, 45, 5934-5944.	11.3	152
62	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
63	Gel-forming exopolysaccharides explain basic differences between structures of aerobic sludge granules and floccular sludges. <i>Water Research</i> , 2009, 43, 4469-4478.	11.3	151
64	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
65	Achieving high-level nitrogen removal in mainstream by coupling anammox with denitrifying anaerobic methane oxidation in a membrane biofilm reactor. <i>Water Research</i> , 2018, 131, 196-204.	11.3	146
66	Identifying causes for N ₂ O accumulation in a lab-scale sequencing batch reactor performing simultaneous nitrification, denitrification and phosphorus removal. <i>Journal of Biotechnology</i> , 2006, 122, 62-72.	3.8	139
67	Dynamics and dynamic modelling of H ₂ S production in sewer systems. <i>Water Research</i> , 2008, 42, 2527-2538.	11.3	139
68	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
69	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. <i>Water Research</i> , 2018, 145, 113-124.	11.3	137
70	Evaluation of oxygen injection as a means of controlling sulfide production in a sewer system. <i>Water Research</i> , 2008, 42, 4549-4561.	11.3	135
71	Reducing the startup time of aerobic granular sludge reactors through seeding floccular sludge with crushed aerobic granules. <i>Water Research</i> , 2011, 45, 5075-5083.	11.3	135
72	Metagenomic analysis of anammox communities in three different microbial aggregates. <i>Environmental Microbiology</i> , 2016, 18, 2979-2993.	3.8	133

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73	Non-antibiotic pharmaceuticals enhance the transmission of exogenous antibiotic resistance genes through bacterial transformation. <i>ISME Journal</i> , 2020, 14, 2179-2196.	9.8	133
74	Micro-scale observations of the structure of aerobic microbial granules used for the treatment of nutrient-rich industrial wastewater. <i>ISME Journal</i> , 2008, 2, 528-541.	9.8	131
75	Non-antibiotic antimicrobial triclosan induces multiple antibiotic resistance through genetic mutation. <i>Environment International</i> , 2018, 118, 257-265.	10.0	131
76	Free nitrous acid pre-treatment of waste activated sludge enhances volatile solids destruction and improves sludge dewaterability in continuous anaerobic digestion. <i>Water Research</i> , 2018, 130, 13-19.	11.3	127
77	Free nitrous acid inhibition on anoxic phosphorus uptake and denitrification by poly-phosphate accumulating organisms. <i>Biotechnology and Bioengineering</i> , 2007, 98, 903-912.	3.3	126
78	Electron Fluxes in a Microbial Fuel Cell Performing Carbon and Nitrogen Removal. <i>Environmental Science & Technology</i> , 2009, 43, 5144-5149.	10.0	126
79	Iron salts dosage for sulfide control in sewers induces chemical phosphorus removal during wastewater treatment. <i>Water Research</i> , 2010, 44, 3467-3475.	11.3	126
80	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. <i>Environmental Science & Technology</i> , 2018, 52, 7351-7359.	10.0	124
81	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
82	Complete Nitrogen Removal from Synthetic Anaerobic Sludge Digestion Liquor through Integrating Anammox and Denitrifying Anaerobic Methane Oxidation in a Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2017, 51, 819-827.	10.0	122
83	Spontaneous electrochemical removal of aqueous sulfide. <i>Water Research</i> , 2008, 42, 4965-4975.	11.3	120
84	Modeling Electron Competition among Nitrogen Oxides Reduction and N ₂ O Accumulation in Denitrification. <i>Environmental Science & Technology</i> , 2013, 47, 11083-11091.	10.0	119
85	Corrosion and odor management in sewer systems. <i>Current Opinion in Biotechnology</i> , 2015, 33, 192-197.	6.6	119
86	High-Content, Well-Dispersed Fe ₂ O ₃ Nanoparticles Encapsulated in Macroporous Silica with Superior Arsenic Removal Performance. <i>Advanced Functional Materials</i> , 2014, 24, 1354-1363.	14.9	118
87	Effects of sewer conditions on the degradation of selected illicit drug residues in wastewater. <i>Water Research</i> , 2014, 48, 538-547.	11.3	115
88	A novel conditioning process for enhancing dewaterability of waste activated sludge by combination of zero-valent iron and persulfate. <i>Bioresource Technology</i> , 2015, 185, 416-420.	9.6	114
89	Nitrate reduction by denitrifying anaerobic methane oxidizing microorganisms can reach a practically useful rate. <i>Water Research</i> , 2015, 87, 211-217.	11.3	114
90	Antidepressant fluoxetine induces multiple antibiotics resistance in <i>Escherichia coli</i> via ROS-mediated mutagenesis. <i>Environment International</i> , 2018, 120, 421-430.	10.0	112

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91	Efficient inactivation of antibiotic resistant bacteria and antibiotic resistance genes by photo-Fenton process under visible LED light and neutral pH. <i>Water Research</i> , 2020, 179, 115878.	11.3	112
92	Technologies for reducing sludge production in wastewater treatment plants: State of the art. <i>Science of the Total Environment</i> , 2017, 587-588, 510-521.	8.0	111
93	Improving wastewater management using free nitrous acid (FNA). <i>Water Research</i> , 2020, 171, 115382.	11.3	111
94	Modeling of Nitrous Oxide Production by Autotrophic Ammonia-Oxidizing Bacteria with Multiple Production Pathways. <i>Environmental Science & Technology</i> , 2014, 48, 3916-3924.	10.0	110
95	Free nitrous acid inhibition on the aerobic metabolism of poly-phosphate accumulating organisms. <i>Water Research</i> , 2010, 44, 6063-6072.	11.3	109
96	Anaerobic and aerobic metabolism of glycogen-accumulating organisms selected with propionate as the sole carbon source. <i>Microbiology (United Kingdom)</i> , 2006, 152, 2767-2778.	1.8	108
97	Could polyphosphate-accumulating organisms (PAOs) be glycogen-accumulating organisms (GAOs)? <i>Water Research</i> , 2008, 42, 2361-2368.	11.3	107
98	Development of a model for assessing methane formation in rising main sewers. <i>Water Research</i> , 2009, 43, 2874-2884.	11.3	107
99	Suppressing Nitrite-oxidizing Bacteria Growth to Achieve Nitrogen Removal from Domestic Wastewater via Anammox Using Intermittent Aeration with Low Dissolved Oxygen. <i>Scientific Reports</i> , 2015, 5, 13048.	3.3	107
100	Impact of nitrate addition on biofilm properties and activities in rising main sewers. <i>Water Research</i> , 2009, 43, 4225-4237.	11.3	106
101	Recent advances in mathematical modeling of nitrous oxides emissions from wastewater treatment processes. <i>Water Research</i> , 2015, 87, 336-346.	11.3	106
102	Predicting concrete corrosion of sewers using artificial neural network. <i>Water Research</i> , 2016, 92, 52-60.	11.3	106
103	A 20-Year Journey of Partial Nitrification and Anammox (PN/A): from Sidestream toward Mainstream. <i>Environmental Science & Technology</i> , 2022, 56, 7522-7531.	10.0	106
104	Achieving Stable Nitrification for Mainstream Deammonification by Combining Free Nitrous Acid-Based Sludge Treatment and Oxygen Limitation. <i>Scientific Reports</i> , 2016, 6, 25547.	3.3	104
105	Effect of nitrate and nitrite on the selection of microorganisms in the denitrifying anaerobic methane oxidation process. <i>Environmental Microbiology Reports</i> , 2011, 3, 315-319.	2.4	103
106	Understanding the properties of aerobic sludge granules as hydrogels. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1483-1493.	3.3	102
107	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
108	Unraveling microbial structure and diversity of activated sludge in a full-scale simultaneous nitrogen and phosphorus removal plant using metagenomic sequencing. <i>Enzyme and Microbial Technology</i> , 2017, 102, 16-25.	3.2	100

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109	Effects of nitrite concentration and exposure time on sulfide and methane production in sewer systems. <i>Water Research</i> , 2010, 44, 4241-4251.	11.3	99
110	Sludge population optimisation: a new dimension for the control of biological wastewater treatment systems. <i>Water Research</i> , 2002, 36, 482-490.	11.3	98
111	Achieving the nitrite pathway using aeration phase length control and step-feed in an SBR removing nutrients from abattoir wastewater. <i>Biotechnology and Bioengineering</i> , 2008, 100, 1228-1236.	3.3	96
112	Fossil organic carbon in wastewater and its fate in treatment plants. <i>Water Research</i> , 2013, 47, 5270-5281.	11.3	96
113	Impact of in-Sewer Degradation of Pharmaceutical and Personal Care Products (PPCPs) Population Markers on a Population Model. <i>Environmental Science & Technology</i> , 2017, 51, 3816-3823.	10.0	96
114	Stratified Microbial Structure and Activity in Sulfide- and Methane-Producing Anaerobic Sewer Biofilms. <i>Applied and Environmental Microbiology</i> , 2014, 80, 7042-7052.	3.1	95
115	Electrochemical sulfide oxidation from domestic wastewater using mixed metal-coated titanium electrodes. <i>Water Research</i> , 2011, 45, 5381-5388.	11.3	93
116	Improving secondary sludge biodegradability using free nitrous acid treatment. <i>Bioresource Technology</i> , 2012, 116, 92-98.	9.6	93
117	Impact of Iron Salt Dosage to Sewers on Downstream Anaerobic Sludge Digesters: Sulfide Control and Methane Production. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 594-601.	1.4	93
118	Dosing free nitrous acid for sulfide control in sewers: Results of field trials in Australia. <i>Water Research</i> , 2013, 47, 4331-4339.	11.3	92
119	The role of iron in sulfide induced corrosion of sewer concrete. <i>Water Research</i> , 2014, 49, 166-174.	11.3	92
120	Inactivation and adaptation of ammonia-oxidizing bacteria and nitrite-oxidizing bacteria when exposed to free nitrous acid. <i>Bioresource Technology</i> , 2017, 245, 1266-1270.	9.6	92
121	Biochar-Mediated Anaerobic Oxidation of Methane. <i>Environmental Science & Technology</i> , 2019, 53, 6660-6668.	10.0	92
122	Rationally designed functional macroporous materials as new adsorbents for efficient phosphorus removal. <i>Journal of Materials Chemistry</i> , 2012, 22, 9983.	6.7	90
123	Microbial distribution of <i>Accumulibacter</i> spp. and <i>Competibacter</i> spp. in aerobic granules from a lab-scale biological nutrient removal system. <i>Environmental Microbiology</i> , 2008, 10, 354-363.	3.8	86
124	Dissolved methane in rising main sewer systems: field measurements and simple model development for estimating greenhouse gas emissions. <i>Water Science and Technology</i> , 2009, 60, 2963-2971.	2.5	85
125	Hydrolysis, acidification and dewaterability of waste activated sludge under alkaline conditions: Combined effects of NaOH and Ca(OH) ₂ . <i>Bioresource Technology</i> , 2013, 136, 237-243.	9.6	85
126	Evaluating four mathematical models for nitrous oxide production by autotrophic ammonia-oxidizing bacteria. <i>Biotechnology and Bioengineering</i> , 2013, 110, 153-163.	3.3	85

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127	Development of a novel titration and off-gas analysis (TOGA) sensor for study of biological processes in wastewater treatment systems. <i>Biotechnology and Bioengineering</i> , 2003, 81, 482-495.	3.3	84
128	A review on sludge conditioning by sludge pre-treatment with a focus on advanced oxidation. <i>RSC Advances</i> , 2014, 4, 50644-50652.	3.6	83
129	Odor emissions from domestic wastewater: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 1581-1611.	12.8	83
130	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
131	Endogenous metabolism of <i>Candidatus Accumulibacter phosphatis</i> under various starvation conditions. <i>Water Research</i> , 2007, 41, 4646-4656.	11.3	81
132	Microbial Selenate Reduction Driven by a Denitrifying Anaerobic Methane Oxidation Biofilm. <i>Environmental Science & Technology</i> , 2018, 52, 4006-4012.	10.0	81
133	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
134	Control of nitrate recirculation flow in predenitrification systems. <i>Water Science and Technology</i> , 2002, 45, 29-36.	2.5	80
135	Electrochemical sulfide removal and recovery from paper mill anaerobic treatment effluent. <i>Water Research</i> , 2010, 44, 2563-2571.	11.3	80
136	Breakage and growth towards a stable aerobic granule size during the treatment of wastewater. <i>Water Research</i> , 2013, 47, 5338-5349.	11.3	80
137	Modeling of Simultaneous Anaerobic Methane and Ammonium Oxidation in a Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2014, 48, 9540-9547.	10.0	80
138	High-level nitrogen removal by simultaneous partial nitrification, anammox and nitrite/nitrate-dependent anaerobic methane oxidation. <i>Water Research</i> , 2019, 166, 115057.	11.3	80
139	Simultaneous removal of antibiotic resistant bacteria, antibiotic resistance genes, and micropollutants by a modified photo-Fenton process. <i>Water Research</i> , 2021, 197, 117075.	11.3	80
140	Production of targeted poly(3-hydroxyalkanoates) copolymers by glycogen accumulating organisms using acetate as sole carbon source. <i>Journal of Biotechnology</i> , 2007, 129, 489-497.	3.8	79
141	Involvement of the TCA cycle in the anaerobic metabolism of polyphosphate accumulating organisms (PAOs). <i>Water Research</i> , 2009, 43, 1330-1340.	11.3	78
142	Purification and Conformational Analysis of a Key Exopolysaccharide Component of Mixed Culture Aerobic Sludge Granules. <i>Environmental Science & Technology</i> , 2010, 44, 4729-4734.	10.0	78
143	Sulfide and methane production in sewer sediments. <i>Water Research</i> , 2015, 70, 350-359.	11.3	78
144	Effects of nitrate dosing on methanogenic activity in a sulfide-producing sewer biofilm reactor. <i>Water Research</i> , 2013, 47, 1783-1792.	11.3	77

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145	The Confounding Effect of Nitrite on N ₂ O Production by an Enriched Ammonia-Oxidizing Culture. <i>Environmental Science & Technology</i> , 2013, 47, 7186-7194.	10.0	77
146	Feasibility of sulfide control in sewers by reuse of iron rich drinking water treatment sludge. <i>Water Research</i> , 2015, 71, 150-159.	11.3	77
147	Methane-supported nitrate removal from groundwater in a membrane biofilm reactor. <i>Water Research</i> , 2018, 132, 71-78.	11.3	77
148	Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO ₂ reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119945.	20.2	77
149	Free nitrous acid (FNA) inhibition on denitrifying poly-phosphate accumulating organisms (DPAOs). <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 359-369.	3.6	76
150	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
151	Sweating the assets – The role of instrumentation, control and automation in urban water systems. <i>Water Research</i> , 2019, 155, 381-402.	11.3	76
152	Non-antibiotic pharmaceuticals promote the transmission of multidrug resistance plasmids through intra- and intergenera conjugation. <i>ISME Journal</i> , 2021, 15, 2493-2508.	9.8	76
153	Anaerobic metabolism of <i>DeFluviicoccus vanus</i> related glycogen accumulating organisms (GAOs) with acetate and propionate as carbon sources. <i>Water Research</i> , 2007, 41, 1885-1896.	11.3	75
154	Electrochemical Abatement of Hydrogen Sulfide from Waste Streams. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 1555-1578.	12.8	75
155	Triclosan at environmental concentrations can enhance the spread of extracellular antibiotic resistance genes through transformation. <i>Science of the Total Environment</i> , 2020, 713, 136621.	8.0	75
156	A free nitrous acid (FNA)-based technology for reducing sludge production. <i>Water Research</i> , 2013, 47, 3663-3672.	11.3	74
157	Assessment of pH shock as a method for controlling sulfide and methane formation in pressure main sewer systems. <i>Water Research</i> , 2014, 48, 569-578.	11.3	74
158	Biotransformation of pharmaceuticals by ammonia oxidizing bacteria in wastewater treatment processes. <i>Science of the Total Environment</i> , 2016, 566-567, 796-805.	8.0	74
159	Assessing the Spatial and Temporal Variability of Diffusive Methane and Nitrous Oxide Emissions from Subtropical Freshwater Reservoirs. <i>Environmental Science & Technology</i> , 2014, 48, 14499-14507.	10.0	73
160	Characterisation of polyhydroxyalkanoate copolymers with controllable four-monomer composition. <i>Journal of Biotechnology</i> , 2008, 134, 137-145.	3.8	72
161	Optimization of intermittent, simultaneous dosage of nitrite and hydrochloric acid to control sulfide and methane productions in sewers. <i>Water Research</i> , 2011, 45, 6163-6172.	11.3	72
162	Filamentous and non-filamentous bulking of activated sludge encountered under nutrients limitation or deficiency conditions. <i>Chemical Engineering Journal</i> , 2014, 255, 453-461.	12.7	72

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163	Copper Oxide Nanoparticles Induce Lysogenic Bacteriophage and Metal-Resistance Genes in <i>Pseudomonas aeruginosa</i> PAO1. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22298-22307.	8.0	72
164	Determination of Growth Rate and Yield of Nitrifying Bacteria by Measuring Carbon Dioxide Uptake Rate. <i>Water Environment Research</i> , 2007, 79, 2437-2445.	2.7	71
165	A laboratory investigation of interactions between denitrifying anaerobic methane oxidation (DAMO) and anammox processes in anoxic environments. <i>Scientific Reports</i> , 2015, 5, 8706.	3.3	71
166	Role of Sulfur during Acetate Oxidation in Biological Anodes. <i>Environmental Science & Technology</i> , 2009, 43, 3839-3845.	10.0	69
167	Evaluating two concepts for the modelling of intermediates accumulation during biological denitrification in wastewater treatment. <i>Water Research</i> , 2015, 71, 21-31.	11.3	69
168	Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient CO ₂ Reduction to Formate by Controlled Surface Sn Electrodeposition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21670-21681.	8.0	69
169	A new approach to simultaneous ammonium and dissolved methane removal from anaerobic digestion liquor: A model-based investigation of feasibility. <i>Water Research</i> , 2015, 85, 295-303.	11.3	68
170	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
171	Proposed modifications to metabolic model for glycogen-accumulating organisms under anaerobic conditions. <i>Biotechnology and Bioengineering</i> , 2002, 80, 277-279.	3.3	67
172	Electrochemical sulfide removal from synthetic and real domestic wastewater at high current densities. <i>Water Research</i> , 2011, 45, 2281-2289.	11.3	66
173	Methane emission from sewers. <i>Science of the Total Environment</i> , 2015, 524-525, 40-51.	8.0	66
174	Methane and nitrous oxide emissions from a subtropical estuary (the Brisbane River estuary,). <i>Journal of Environmental Quality</i> , 2010, 39, 50-60.	8.0	65
175	Role of extracellular polymeric substances in improvement of sludge dewaterability through peroxidation. <i>Bioresource Technology</i> , 2015, 192, 817-820.	9.6	65
176	Stability of alcohol and tobacco consumption biomarkers in a real rising main sewer. <i>Water Research</i> , 2018, 138, 19-26.	11.3	64
177	Stoichiometric and kinetic characterisation of <i>Nitrobacter</i> in mixed culture by decoupling the growth and energy generation processes. <i>Biotechnology and Bioengineering</i> , 2006, 94, 1176-1188.	3.3	62
178	Selectively inducing the synthesis of a key structural exopolysaccharide in aerobic granules by enriching for <i>Candidatus Competibacter phosphatis</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 1297-1305.	3.6	62
179	Modeling nitrogen removal with partial nitrification and anammox in one floc-based sequencing batch reactor. <i>Water Research</i> , 2014, 67, 321-329.	11.3	62
180	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

#	ARTICLE	IF	CITATIONS
181	Biofouling and scaling control of reverse osmosis membrane using one-step cleaning-potential of acidified nitrite solution as an agent. <i>Journal of Membrane Science</i> , 2015, 495, 276-283.	8.2	62
182	Modeling aerobic carbon oxidation and storage by integrating respirometric, titrimetric, and off-gas CO ₂ measurements. <i>Biotechnology and Bioengineering</i> , 2004, 88, 135-147.	3.3	59
183	The denitrification capability of cluster 1 <i>Defluviicoccus vanus</i> -related glycogen-accumulating organisms. <i>Biotechnology and Bioengineering</i> , 2008, 99, 1329-1336.	3.3	59
184	Structural Determination of a Key Exopolysaccharide in Mixed Culture Aerobic Sludge Granules Using NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2010, 44, 8964-8970.	10.0	59
185	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
186	pH dynamics in sewers and its modeling. <i>Water Research</i> , 2013, 47, 6086-6096.	11.3	59
187	Effects of nitrate dosing on sulfidogenic and methanogenic activities in sewer sediment. <i>Water Research</i> , 2015, 74, 155-165.	11.3	59
188	Development of a 2-sludge, 3-stage system for nitrogen and phosphorous removal from nutrient-rich wastewater using granular sludge and biofilms. <i>Water Research</i> , 2008, 42, 3207-3217.	11.3	58
189	Electrochemical regeneration of sulfur loaded electrodes. <i>Electrochemistry Communications</i> , 2009, 11, 1437-1440.	4.7	58
190	A model-based assessment of nitric oxide and nitrous oxide production in membrane-aerated autotrophic nitrogen removal biofilm systems. <i>Journal of Membrane Science</i> , 2013, 428, 163-171.	8.2	58
191	Synergistic inactivation of anaerobic wastewater biofilm by free nitrous acid and hydrogen peroxide. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 91-98.	12.4	58
192	Modeling the pH effect on sulfidogenesis in anaerobic sewer biofilm. <i>Water Research</i> , 2014, 49, 175-185.	11.3	58
193	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
194	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
195	A comprehensive laboratory assessment of the effects of sewer-dosed iron salts on wastewater treatment processes. <i>Water Research</i> , 2018, 146, 109-117.	11.3	56
196	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
197	Temperature-Tolerated Mainstream Nitrogen Removal by Anammox and Nitrite/Nitrate-Dependent Anaerobic Methane Oxidation in a Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2020, 54, 3012-3021.	10.0	56
198	Biodegradation of atenolol by an enriched nitrifying sludge: Products and pathways. <i>Chemical Engineering Journal</i> , 2017, 312, 351-359.	12.7	55

#	ARTICLE	IF	CITATIONS
199	The rapid chemically induced corrosion of concrete sewers at high H ₂ S concentration. <i>Water Research</i> , 2019, 162, 95-104.	11.3	55
200	Effectiveness of an alternating aerobic, anoxic/anaerobic strategy for maintaining biomass activity of BNR sludge during long-term starvation. <i>Water Research</i> , 2007, 41, 2590-2598.	11.3	54
201	Granular Sludge Coupling Nitrate/Nitrite Dependent Anaerobic Methane Oxidation with Anammox: from Proof-of-Concept to High Rate Nitrogen Removal. <i>Environmental Science & Technology</i> , 2020, 54, 297-305.	10.0	54
202	Model-based analysis of anaerobic acetate uptake by a mixed culture of polyphosphate-accumulating and glycogen-accumulating organisms. <i>Biotechnology and Bioengineering</i> , 2003, 83, 293-302.	3.3	53
203	Mechanisms of Persistence of the Ammonia-Oxidizing Bacteria <i>Nitrosomonas</i> to the Biocide Free Nitrous Acid. <i>Environmental Science & Technology</i> , 2018, 52, 5386-5397.	10.0	52
204	Model-based evaluation of the role of Anammox on nitric oxide and nitrous oxide productions in membrane aerated biofilm reactor. <i>Journal of Membrane Science</i> , 2013, 446, 332-340.	8.2	51
205	Free nitrous acid breaks down extracellular polymeric substances in waste activated sludge. <i>RSC Advances</i> , 2015, 5, 43312-43318.	3.6	51
206	A novel and simple treatment for control of sulfide induced sewer concrete corrosion using free nitrous acid. <i>Water Research</i> , 2015, 70, 279-287.	11.3	51
207	Reducing N ₂ O Emission from a Domestic-Strength Nitrifying Culture by Free Nitrous Acid-Based Sludge Treatment. <i>Environmental Science & Technology</i> , 2016, 50, 7425-7433.	10.0	51
208	Sulfide and methane production in sewer sediments: Field survey and model evaluation. <i>Water Research</i> , 2016, 89, 142-150.	11.3	51
209	Biological Bromate Reduction Driven by Methane in a Membrane Biofilm Reactor. <i>Environmental Science and Technology Letters</i> , 2017, 4, 562-566.	8.7	51
210	High performance nitrogen removal through integrating denitrifying anaerobic methane oxidation and Anammox: from enrichment to application. <i>Environment International</i> , 2019, 132, 105107.	10.0	51
211	Robust Nitritation Sustained by Acid-Tolerant Ammonia-Oxidizing Bacteria. <i>Environmental Science & Technology</i> , 2021, 55, 2048-2056.	10.0	51
212	Stability of Illicit Drugs as Biomarkers in Sewers: From Lab to Reality. <i>Environmental Science & Technology</i> , 2018, 52, 1561-1570.	10.0	50
213	Effect of methane partial pressure on the performance of a membrane biofilm reactor coupling methane-dependent denitrification and anammox. <i>Science of the Total Environment</i> , 2018, 639, 278-285.	8.0	50
214	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
215	Roles of reactive oxygen species in antibiotic resistant bacteria inactivation and micropollutant degradation in Fenton and photo-Fenton processes. <i>Journal of Hazardous Materials</i> , 2022, 430, 128408.	12.4	49
216	Determining Multiple Responses of <i>Pseudomonas aeruginosa</i> PAO1 to an Antimicrobial Agent, Free Nitrous Acid. <i>Environmental Science & Technology</i> , 2016, 50, 5305-5312.	10.0	48

#	ARTICLE	IF	CITATIONS
217	Acetate Production from Anaerobic Oxidation of Methane via Intracellular Storage Compounds. <i>Environmental Science & Technology</i> , 2019, 53, 7371-7379.	10.0	48
218	Growth kinetics of <i>Candidatus Methanoperedens nitroreducens</i> TM enriched in a laboratory reactor. <i>Science of the Total Environment</i> , 2019, 659, 442-450.	8.0	48
219	Mitigating nitrous oxide emissions at a full-scale wastewater treatment plant. <i>Water Research</i> , 2020, 185, 116196.	11.3	48
220	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
221	Modelling the long-term effect of wastewater compositions on maximum sulfide and methane production rates of sewer biofilm. <i>Water Research</i> , 2018, 129, 58-65.	11.3	47
222	Physiological and transcriptomic analyses reveal CuO nanoparticle inhibition of anabolic and catabolic activities of sulfate-reducing bacterium. <i>Environment International</i> , 2019, 125, 65-74.	10.0	46
223	Simultaneous Removal of Dissolved Methane and Nitrogen from Synthetic Mainstream Anaerobic Effluent. <i>Environmental Science & Technology</i> , 2020, 54, 7629-7638.	10.0	46
224	Anaerobic Oxidation of Methane Coupled with Dissimilatory Nitrate Reduction to Ammonium Fuels Anaerobic Ammonium Oxidation. <i>Environmental Science & Technology</i> , 2021, 55, 1197-1208.	10.0	46
225	Electrochemical oxidation of iron and alkalinity generation for efficient sulfide control in sewers. <i>Water Research</i> , 2017, 118, 114-120.	11.3	45
226	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
227	Rapid formation of granules coupling n-DAMO and anammox microorganisms to remove nitrogen. <i>Water Research</i> , 2021, 194, 116963.	11.3	45
228	Improving dewaterability of waste activated sludge by combined conditioning with zero-valent iron and hydrogen peroxide. <i>Bioresource Technology</i> , 2014, 174, 103-107.	9.6	44
229	Control filamentous bulking caused by chlorine-resistant Type O21N bacteria through adding a biocide CTAB. <i>Water Research</i> , 2012, 46, 6531-6542.	11.3	43
230	Systematic evaluation of biomarker stability in pilot scale sewer pipes. <i>Water Research</i> , 2019, 151, 447-455.	11.3	43
231	Distinct microbially induced concrete corrosion at the tidal region of reinforced concrete sewers. <i>Water Research</i> , 2019, 150, 392-402.	11.3	43
232	Critical Factors Facilitating <i>Candidatus Nitrotoga</i> To Be Prevalent Nitrite-Oxidizing Bacteria in Activated Sludge. <i>Environmental Science & Technology</i> , 2020, 54, 15414-15423.	10.0	43
233	Simultaneous nitrate and sulfate dependent anaerobic oxidation of methane linking carbon, nitrogen and sulfur cycles. <i>Water Research</i> , 2021, 194, 116928.	11.3	43
234	Hydrogen-driven microbial biogas upgrading: Advances, challenges and solutions. <i>Water Research</i> , 2021, 197, 117120.	11.3	43

#	ARTICLE	IF	CITATIONS
235	Strategies to improve viability of a circular carbon bioeconomy-A techno-economic review of microbial electrosynthesis and gas fermentation. <i>Water Research</i> , 2021, 201, 117306.	11.3	43
236	The source of reducing power in the anaerobic metabolism of polyphosphate accumulating organisms (PAOs) – a mini-review. <i>Water Science and Technology</i> , 2010, 61, 1653-1662.	2.5	42
237	Degradability of creatinine under sewer conditions affects its potential to be used as biomarker in sewage epidemiology. <i>Water Research</i> , 2014, 55, 272-279.	11.3	42
238	Applications of high-gravity technologies in gas purifications: A review. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1361-1373.	3.5	42
239	Effect of long term anaerobic and intermittent anaerobic/aerobic starvation on aerobic granules. <i>Water Research</i> , 2009, 43, 3622-3632.	11.3	41
240	Microbial community structure and biodiversity of size-fractionated granules in a partial nitrification–anammox process. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	41
241	An integrated strategy to enhance performance of anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 195, 116977.	11.3	41
242	Effects of in-sewer dosing of iron-rich drinking water sludge on wastewater collection and treatment systems. <i>Water Research</i> , 2020, 171, 115396.	11.3	40
243	Roles and opportunities for microbial anaerobic oxidation of methane in natural and engineered systems. <i>Energy and Environmental Science</i> , 2021, 14, 4803-4830.	30.8	40
244	A sequencing batch reactor system for high-level biological nitrogen and phosphorus removal from abattoir wastewater. <i>Biodegradation</i> , 2009, 20, 339-350.	3.0	39
245	Online dissolved methane and total dissolved sulfide measurement in sewers. <i>Water Research</i> , 2015, 68, 109-118.	11.3	39
246	Why do residential recycled water schemes fail? A comprehensive review of risk factors and impact on objectives. <i>Water Research</i> , 2016, 102, 271-281.	11.3	39
247	Evaluation of different nitrous oxide production models with four continuous long-term wastewater treatment process data series. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 493-510.	3.4	39
248	Enhanced volatile fatty acids production of waste activated sludge under salinity conditions: Performance and mechanisms. <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 293-298.	2.2	39
249	A comparative study of methanol as a supplementary carbon source for enhancing denitrification in primary and secondary anoxic zones. <i>Biodegradation</i> , 2009, 20, 221-234.	3.0	38
250	Response of poly-phosphate accumulating organisms to free nitrous acid inhibition under anoxic and aerobic conditions. <i>Bioresource Technology</i> , 2012, 116, 340-347.	9.6	38
251	Cometabolic biodegradation of cephalixin by enriched nitrifying sludge: Process characteristics, gene expression and product biotoxicity. <i>Science of the Total Environment</i> , 2019, 672, 275-282.	8.0	38
252	Rapid and strong biocidal effect of ferrate on sulfidogenic and methanogenic sewer biofilms. <i>Water Research</i> , 2020, 169, 115208.	11.3	38

#	ARTICLE	IF	CITATIONS
253	Insights of metallic nanoparticles and ions in accelerating the bacterial uptake of antibiotic resistance genes. <i>Journal of Hazardous Materials</i> , 2022, 421, 126728.	12.4	38
254	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
255	Free ammonia shock treatment eliminates nitrite-oxidizing bacterial activity for mainstream biofilm nitrification process. <i>Chemical Engineering Journal</i> , 2020, 393, 124682.	12.7	37
256	Efficient nitrogen removal from mainstream wastewater through coupling Partial Nitrification, Anammox and Methane-dependent nitrite/nitrate reduction (PNAM). <i>Water Research</i> , 2021, 206, 117723.	11.3	37
257	Dynamic microbial response of sulfidogenic wastewater biofilm to nitrate. <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 1647-1657.	3.6	36
258	Stoichiometric and kinetic characterisation of <i>Nitrosomonas</i> sp. in mixed culture by decoupling the growth and energy generation processes. <i>Journal of Biotechnology</i> , 2006, 126, 342-356.	3.8	35
259	Differential distribution of ammonia- and nitrite-oxidising bacteria in flocs and granules from a nitrifying/denitrifying sequencing batch reactor. <i>Enzyme and Microbial Technology</i> , 2006, 39, 1392-1398.	3.2	35
260	Enhancing Toxic Metal Removal from Acidified Sludge with Nitrite Addition. <i>Environmental Science & Technology</i> , 2015, 49, 6257-6263.	10.0	35
261	Improved sulfide mitigation in sewers through on-line control of ferrous salt dosing. <i>Water Research</i> , 2018, 135, 302-310.	11.3	35
262	Quantifying rainfall-derived inflow and infiltration in sanitary sewer systems based on conductivity monitoring. <i>Journal of Hydrology</i> , 2018, 558, 174-183.	5.4	35
263	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
264	Microbial chromate reduction coupled with anaerobic oxidation of methane in a membrane biofilm reactor. <i>Environment International</i> , 2019, 130, 104926.	10.0	35
265	Corrosion of reinforcing steel in concrete sewers. <i>Science of the Total Environment</i> , 2019, 649, 739-748.	8.0	35
266	Recovery of in-sewer dosed iron from digested sludge at downstream treatment plants and its reuse potential. <i>Water Research</i> , 2020, 174, 115627.	11.3	35
267	Stand-alone asymmetric hollow fiber gas-diffusion electrodes with distinguished bronze phases for high-efficiency CO ₂ electrochemical reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120538.	20.2	35
268	Achieving complete nitrogen removal by coupling nitrification-anammox and methane-dependent denitrification: A model-based study. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1035-1045.	3.3	34
269	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
270	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

#	ARTICLE	IF	CITATIONS
271	Perchlorate bio-reduction in a methane-based membrane biofilm reactor in the presence and absence of oxygen. <i>Water Research</i> , 2019, 157, 572-578.	11.3	34
272	Wastewater treatment technology selection under various influent conditions and effluent standards based on life cycle assessment. <i>Resources, Conservation and Recycling</i> , 2020, 154, 104562.	10.8	34
273	Nitrite production from urine for sulfide control in sewers. <i>Water Research</i> , 2017, 122, 447-454.	11.3	33
274	Control sulfide and methane production in sewers based on free ammonia inactivation. <i>Environment International</i> , 2020, 143, 105928.	10.0	33
275	Unravelling kinetic and microbial responses of enriched nitrifying sludge under long-term exposure of cephalexin and sulfadiazine. <i>Water Research</i> , 2020, 173, 115592.	11.3	33
276	Increased Resistance of Nitrite-Admixed Concrete to Microbially Induced Corrosion in Real Sewers. <i>Environmental Science & Technology</i> , 2020, 54, 2323-2333.	10.0	33
277	Event-driven model predictive control of sewage pumping stations for sulfide mitigation in sewer networks. <i>Water Research</i> , 2016, 98, 376-383.	11.3	32
278	Enhancing sludge biodegradability through free nitrous acid pre-treatment at low exposure time. <i>Chemical Engineering Journal</i> , 2017, 321, 139-145.	12.7	32
279	High-Rate Production of Short-Chain Fatty Acids from Methane in a Mixed-Culture Membrane Biofilm Reactor. <i>Environmental Science and Technology Letters</i> , 2018, 5, 662-667.	8.7	32
280	Nitrite accumulation inside sludge flocs significantly influencing nitrous oxide production by ammonium-oxidizing bacteria. <i>Water Research</i> , 2018, 143, 99-108.	11.3	32
281	Evaluating the in-sewer stability of three potential population biomarkers for application in wastewater-based epidemiology. <i>Science of the Total Environment</i> , 2019, 671, 248-253.	8.0	32
282	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
283	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
284	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
285	Degradation of methanethiol in anaerobic sewers and its correlation with methanogenic activities. <i>Water Research</i> , 2015, 69, 80-89.	11.3	31
286	Greenhouse gas emissions from integrated urban drainage systems: Where do we stand?. <i>Journal of Hydrology</i> , 2018, 559, 307-314.	5.4	31
287	Simultaneous Removal of Antibiotic Resistant Bacteria, Antibiotic Resistance Genes, and Micropollutants by FeS ₂ @GO-Based Heterogeneous Photo-Fenton Process. <i>Environmental Science & Technology</i> , 2022, 56, 15156-15166.	10.0	31
288	Variation in Biofilm Structure and Activity Along the Length of a Rising Main Sewer. <i>Water Environment Research</i> , 2009, 81, 800-808.	2.7	30

#	ARTICLE	IF	CITATIONS
289	An efficient method for measuring dissolved VOCs in wastewater using GC-SCD with static headspace technique. <i>Water Research</i> , 2014, 52, 208-217.	11.3	30
290	Antimicrobial Effects of Free Nitrous Acid on <i>Desulfovibrio vulgaris</i> : Implications for Sulfide-Induced Corrosion of Concrete. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5563-5575.	3.1	30
291	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
292	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
293	Full-scale investigation of ferrous dosing in sewers and a wastewater treatment plant for multiple benefits. <i>Chemosphere</i> , 2020, 250, 126221.	8.2	30
294	Sludge population optimisation in biological nutrient removal wastewater treatment systems through on-line process control: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2008, 7, 243-254.	8.1	29
295	The concentration-determined and population-specific antimicrobial effects of free nitrous acid on <i>Pseudomonas aeruginosa</i> PAO1. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2305-2312.	3.6	29
296	Silver nanoparticles stimulate the proliferation of sulfate reducing bacterium <i>Desulfovibrio vulgaris</i> . <i>Water Research</i> , 2018, 129, 163-171.	11.3	29
297	Model-based investigation of membrane biofilm reactors coupling anammox with nitrite/nitrate-dependent anaerobic methane oxidation. <i>Environment International</i> , 2020, 137, 105501.	10.0	29
298	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
299	Real-time prediction of rain-impacted sewage flow for on-line control of chemical dosing in sewers. <i>Water Research</i> , 2019, 149, 311-321.	11.3	28
300	Effects of dosing iron- and alum-containing waterworks sludge on sulfide and phosphate removal in a pilot sewer. <i>Chemical Engineering Journal</i> , 2020, 387, 124073.	12.7	28
301	Post-treatment options for anaerobically digested sludge: Current status and future prospect. <i>Water Research</i> , 2021, 205, 117665.	11.3	28
302	Elucidation of metabolic pathways in glycogen-accumulating organisms with <i>in vivo</i> ¹³ C nuclear magnetic resonance. <i>Environmental Microbiology</i> , 2007, 9, 2694-2706.	3.8	27
303	Sampling considerations and assessment of <i>in situ</i> xetainer usage for measuring dissolved and gaseous methane and nitrous oxide in aquatic systems. <i>Limnology and Oceanography: Methods</i> , 2015, 13, 375-390.	2.0	27
304	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
305	Biotransformation of acyclovir by an enriched nitrifying culture. <i>Chemosphere</i> , 2017, 170, 25-32.	8.2	27
306	Unravelling the influences of sewer-dosed iron salts on activated sludge properties with implications on settleability, dewaterability and sludge rheology. <i>Water Research</i> , 2019, 167, 115089.	11.3	27

#	ARTICLE	IF	CITATIONS
307	Removal of Pharmaceuticals and Illicit Drugs from Wastewater Due to Ferric Dosing in Sewers. <i>Environmental Science & Technology</i> , 2019, 53, 6245-6254.	10.0	27
308	Nitrite admixed concrete for wastewater structures: Mechanical properties, leaching behavior and biofilm development. <i>Construction and Building Materials</i> , 2020, 233, 117341.	7.2	27
309	A novel granular sludge-based and highly corrosion-resistant bio-concrete in sewers. <i>Science of the Total Environment</i> , 2021, 791, 148270.	8.0	27
310	Control of External Carbon Addition to Predenitrifying Systems. <i>Journal of Environmental Engineering, ASCE</i> , 1997, 123, 1080-1086.	1.4	26
311	Effect of free nitrous acid pre-treatment on primary sludge at low exposure times. <i>Bioresource Technology</i> , 2017, 228, 272-278.	9.6	26
312	Effects of pH, Temperature, Suspended Solids, and Biological Activity on Transformation of Illicit Drug and Pharmaceutical Biomarkers in Sewers. <i>Environmental Science & Technology</i> , 2021, 55, 8771-8782.	10.0	26
313	Biotrickling filter for the removal of volatile sulfur compounds from sewers: A review. <i>Chemosphere</i> , 2021, 277, 130333.	8.2	26
314	The effect of poly- β -hydroxyalkanoates degradation rate on nitrous oxide production in a denitrifying phosphorus removal system. <i>Bioresource Technology</i> , 2014, 170, 175-182.	9.6	25
315	Experimental Investigation and Modeling of the Transformation of Illicit Drugs in a Pilot-Scale Sewer System. <i>Environmental Science & Technology</i> , 2019, 53, 4556-4565.	10.0	25
316	Rebar corrosion and its interaction with concrete degradation in reinforced concrete sewers. <i>Water Research</i> , 2020, 182, 115961.	11.3	25
317	Modeling the Aerobic Metabolism of Polyphosphate-accumulating Organisms Enriched with Propionate as a Carbon Source. <i>Water Environment Research</i> , 2007, 79, 2477-2486.	2.7	24
318	Long-term field test of an electrochemical method for sulfide removal from sewage. <i>Water Research</i> , 2012, 46, 3085-3093.	11.3	24
319	Online titrimetric and off-gas analysis for examining nitrification processes in wastewater treatment. <i>Water Research</i> , 2003, 37, 2678-2690.	11.3	23
320	Real-Time Multistep Prediction of Sewer Flow for Online Chemical Dosing Control. <i>Journal of Environmental Engineering, ASCE</i> , 2014, 140, .	1.4	23
321	Towards energy positive wastewater treatment by sludge treatment using free nitrous acid. <i>Chemosphere</i> , 2016, 144, 1869-1873.	8.2	23
322	Simultaneous use of caustic and oxygen for efficient sulfide control in sewers. <i>Science of the Total Environment</i> , 2017, 601-602, 776-783.	8.0	23
323	Aerobic condition enhances bacteriostatic effects of silver nanoparticles in aquatic environment: an antimicrobial study on <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2017, 7, 7398.	3.3	23
324	Inactivation kinetics of nitrite-oxidizing bacteria by free nitrous acid. <i>Science of the Total Environment</i> , 2021, 752, 141876.	8.0	23

#	ARTICLE	IF	CITATIONS
325	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
326	Impact of oxygen injection on CH ₄ and N ₂ O emissions from rising main sewers. <i>Journal of Environmental Management</i> , 2014, 144, 279-285.	7.8	22
327	Sources and sinks of methane and nitrous oxide in the subtropical Brisbane River estuary, South East Queensland, Australia. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 168, 10-21.	2.1	22
328	Microbial Methane Conversion to Short-Chain Fatty Acids Using Various Electron Acceptors in Membrane Biofilm Reactors. <i>Environmental Science & Technology</i> , 2019, 53, 12846-12855.	10.0	22
329	Insight into the nitrification kinetics and microbial response of an enriched nitrifying sludge in the biodegradation of sulfadiazine. <i>Environmental Pollution</i> , 2019, 255, 113160.	7.5	22
330	Transformation of Illicit Drugs and Pharmaceuticals in Sewer Sediments. <i>Environmental Science & Technology</i> , 2020, 54, 13056-13065.	10.0	22
331	Assessing the removal of organic micropollutants from wastewater by discharging drinking water sludge to sewers. <i>Water Research</i> , 2020, 181, 115945.	11.3	22
332	Stoichiometric and kinetic characterization of an acid-tolerant ammonia oxidizer <i>Candidatus Nitrosoglobus</i> ™. <i>Water Research</i> , 2021, 196, 117026.	11.3	22
333	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
334	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
335	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
336	On-line monitoring of methane in sewer air. <i>Scientific Reports</i> , 2014, 4, 6637.	3.3	21
337	Modeling of Pharmaceutical Biotransformation by Enriched Nitrifying Culture under Different Metabolic Conditions. <i>Environmental Science & Technology</i> , 2018, 52, 2835-2843.	10.0	21
338	Structural Changes in Cell-Wall and Cell-Membrane Organic Materials Following Exposure to Free Nitrous Acid. <i>Environmental Science & Technology</i> , 2020, 54, 10301-10312.	10.0	21
339	Regulating the reaction zone of electrochemical CO ₂ reduction on gas-diffusion electrodes by distinctive hydrophilic-hydrophobic catalyst layers. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121362.	20.2	21
340	Ferrous Salt Demand for Sulfide Control in Rising Main Sewers: Tests on a Laboratory-Scale Sewer System. <i>Journal of Environmental Engineering, ASCE</i> , 2010, 136, 1180-1187.	1.4	20
341	Electrochemical caustic generation from sewage. <i>Electrochemistry Communications</i> , 2011, 13, 1202-1204.	4.7	20
342	Evaluating the Role of Microbial Internal Storage Turnover on Nitrous Oxide Accumulation During Denitrification. <i>Scientific Reports</i> , 2015, 5, 15138.	3.3	20

#	ARTICLE	IF	CITATIONS
343	Enhancing methane oxidation in a bioelectrochemical membrane reactor using a soluble electron mediator. <i>Biotechnology for Biofuels</i> , 2020, 13, 173.	6.2	20
344	Study of free nitrous acid (FNA)-based elimination of sulfamethoxazole: Kinetics, transformation pathways, and toxicity assessment. <i>Water Research</i> , 2021, 189, 116629.	11.3	20
345	Anaerobic oxidation of methane mediated by microbial extracellular respiration. <i>Environmental Microbiology Reports</i> , 2021, 13, 790-804.	2.4	20
346	Reducing the size of a nitrogen removal activated sludge plant by shortening the retention time of inert solids via sludge storage. <i>Water Research</i> , 2000, 34, 539-549.	11.3	19
347	A titrimetric respirometer measuring the nitrifiable nitrogen in wastewater using in-sensor-experiment. <i>Water Research</i> , 2001, 35, 180-188.	11.3	19
348	Microstructure of copolymers of polyhydroxyalkanoates produced by glycogen accumulating organisms with acetate as the sole carbon source. <i>Process Biochemistry</i> , 2008, 43, 968-977.	3.7	19
349	Impact of reduced water consumption on sulfide and methane production in rising main sewers. <i>Journal of Environmental Management</i> , 2015, 154, 307-315.	7.8	19
350	Methane dynamics in subtropical freshwater reservoirs and the mediating microbial communities. <i>Biogeochemistry</i> , 2016, 128, 233-255.	3.5	19
351	Full-scale investigation of in-situ iron and alkalinity generation for efficient sulfide control. <i>Water Research</i> , 2019, 167, 115032.	11.3	19
352	The development and application of improved solids modelling to enable resilient urban sewer networks. <i>Journal of Environmental Management</i> , 2019, 240, 219-230.	7.8	19
353	Efficient nitrate removal from synthetic groundwater via in situ utilization of short-chain fatty acids from methane bioconversion. <i>Chemical Engineering Journal</i> , 2020, 393, 124594.	12.7	19
354	Structural changes in model compounds of sludge extracellular polymeric substances caused by exposure to free nitrous acid. <i>Water Research</i> , 2021, 188, 116553.	11.3	19
355	Formation and partitioning behaviour of perfluoroalkyl acids (PFAAs) in waste activated sludge during anaerobic digestion. <i>Water Research</i> , 2021, 189, 116583.	11.3	19
356	Simultaneous online measurement of sulfide and nitrate in sewers for nitrate dosage optimisation. <i>Water Science and Technology</i> , 2010, 61, 651-658.	2.5	18
357	SCORE-CT: a new method for testing effectiveness of sulfide-control chemicals used in sewer systems. <i>Water Science and Technology</i> , 2011, 64, 2381-2388.	2.5	18
358	Molecular Dynamics Unlocks Atomic Level Self-Assembly of the Exopolysaccharide Matrix of Water-Treatment Granular Biofilms. <i>Biomacromolecules</i> , 2012, 13, 1965-1972.	5.4	18
359	In-situ caustic generation from sewage: The impact of caustic strength and sewage composition. <i>Water Research</i> , 2013, 47, 5828-5835.	11.3	18
360	Impact of Ammonium Availability on Atenolol Biotransformation during Nitrification. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7137-7144.	6.7	18

#	ARTICLE	IF	CITATIONS
361	Optical sorting and cultivation of denitrifying anaerobic methane oxidation archaea. <i>Biomedical Optics Express</i> , 2017, 8, 934.	2.9	18
362	Synergistic inhibitory effects of free nitrous acid and imidazoline derivative on metal corrosion in a simulated water injection system. <i>Water Research</i> , 2020, 184, 116122.	11.3	18
363	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
364	Amphiphilic Perfluoropolyether Copolymers for the Effective Removal of Polyfluoroalkyl Substances from Aqueous Environments. <i>Macromolecules</i> , 2021, 54, 3447-3457.	4.8	18
365	Development of radio-frequency identification (RFID) sensors suitable for smart-monitoring applications in sewer systems. <i>Water Research</i> , 2021, 198, 117107.	11.3	18
366	Opportunities for reducing coagulants usage in urban water management: The Oxley Creek Sewage Collection and Treatment System as an example. <i>Water Research</i> , 2019, 165, 114996.	11.3	17
367	Decreasing microbially influenced metal corrosion using free nitrous acid in a simulated water injection system. <i>Water Research</i> , 2020, 172, 115470.	11.3	17
368	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
369	The origin of waste activated sludge affects the enhancement of anaerobic digestion by free nitrous acid pre-treatment. <i>Science of the Total Environment</i> , 2021, 795, 148831.	8.0	17
370	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
371	New Sensor Based on pH Effect of Denitrification Process. <i>Journal of Environmental Engineering, ASCE</i> , 1997, 123, 884-891.	1.4	16
372	Confinement of Chemisorbed Phosphates in a Controlled Nanospace with Three-Dimensional Mesostructures. <i>Chemistry - A European Journal</i> , 2013, 19, 5578-5585.	3.3	16
373	Biogas-driven complete nitrogen removal from wastewater generated in side-stream partial nitrification. <i>Science of the Total Environment</i> , 2020, 745, 141153.	8.0	16
374	Recovery of Nitrous Oxide from Wastewater Treatment: Current Status and Perspectives. <i>ACS ES&T Water</i> , 2021, 1, 240-250.	4.6	16
375	The impact of primary sedimentation on the use of iron-rich drinking water sludge on the urban wastewater system. <i>Journal of Hazardous Materials</i> , 2021, 402, 124051.	12.4	16
376	Acidic aerobic digestion of anaerobically-digested sludge enabled by a novel ammonia-oxidizing bacterium. <i>Water Research</i> , 2021, 194, 116962.	11.3	16
377	Centralized iron-dosing into returned sludge brings multifaceted benefits to wastewater management. <i>Water Research</i> , 2021, 203, 117536.	11.3	16
378	Integrating process engineering and microbiology tools to advance activated sludge wastewater treatment research and development. <i>Reviews in Environmental Science and Biotechnology</i> , 2002, 1, 83-97.	8.1	15

#	ARTICLE	IF	CITATIONS
379	Direct anodic hydrochloric acid and cathodic caustic production during water electrolysis. <i>Scientific Reports</i> , 2016, 6, 20494.	3.3	15
380	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
381	Effects of aging of ferric-based drinking water sludge on its reactivity for sulfide and phosphate removal. <i>Water Research</i> , 2020, 184, 116179.	11.3	15
382	Novel Multiplexed Amplicon-Based Sequencing to Quantify SARS-CoV-2 RNA from Wastewater. <i>Environmental Science and Technology Letters</i> , 2021, 8, 683-690.	8.7	15
383	In Situ Exploration of the Sulfidogenic Process at the Water-Sediment Interface in Sewers: Mechanism and Implications. <i>ACS ES&T Engineering</i> , 2021, 1, 415-423.	7.6	15
384	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
385	Improved understanding of the interactions and complexities of biological nitrogen and phosphorus removal processes. <i>Reviews in Environmental Science and Biotechnology</i> , 2004, 3, 265-272.	8.1	14
386	Preparation and phenol-recognizing ability of a poly(methacrylic acid) molecular imprint on the surface of a silica gel. <i>Mikrochimica Acta</i> , 2011, 172, 89-94.	5.0	14
387	Controlling chemical dosing for sulfide mitigation in sewer networks using a hybrid automata control strategy. <i>Water Science and Technology</i> , 2013, 68, 2584-2590.	2.5	14
388	Enhancing aerobic digestion of full-scale waste activated sludge using free nitrous acid pre-treatment. <i>RSC Advances</i> , 2015, 5, 19128-19134.	3.6	14
389	Methane and nitrous oxide emissions from a subtropical coastal embayment (Moreton Bay, Australia). <i>Journal of Environmental Sciences</i> , 2015, 29, 82-96.	6.1	14
390	Online Control of Magnesium Hydroxide Dosing for Sulfide Mitigation in Sewers: Algorithm Development, Simulation Analysis, and Field Validation. <i>Journal of Environmental Engineering, ASCE</i> , 2016, 142, .	1.4	14
391	Enhancing post aerobic digestion of full-scale anaerobically digested sludge using free nitrous acid pretreatment. <i>Chemosphere</i> , 2016, 150, 152-158.	8.2	14
392	Tidal variability in methane and nitrous oxide emissions along a subtropical estuarine gradient. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 192, 159-169.	2.1	14
393	Different clusters of <i>Candidatus Methanoperedens nitroreducens</i> -like archaea as revealed by high-throughput sequencing with new primers. <i>Scientific Reports</i> , 2018, 8, 7695.	3.3	14
394	Water in China. <i>Water Research</i> , 2020, 169, 115256.	11.3	14
395	Development of granular sludge coupling n-DAMO and Anammox in membrane granular sludge reactor for high rate nitrogen removal. <i>Environmental Research</i> , 2020, 186, 109579.	7.5	14
396	Transformation of phthalates and their metabolites in wastewater under different sewer conditions. <i>Water Research</i> , 2021, 190, 116754.	11.3	14

#	ARTICLE	IF	CITATIONS
397	Microbial Perchlorate Reduction Driven by Ethane and Propane. <i>Environmental Science & Technology</i> , 2021, 55, 2006-2015.	10.0	14
398	Roles of Oxygen in Methane-dependent Selenate Reduction in a Membrane Biofilm Reactor: Stimulation or Suppression. <i>Water Research</i> , 2021, 198, 117150.	11.3	14
399	Swift hydraulic models for real-time control applications in sewer networks. <i>Water Research</i> , 2022, 213, 118141.	11.3	14
400	Improving the observer-based FDI design for efficient fault isolation. <i>International Journal of Control</i> , 1997, 68, 197-218.	1.9	13
401	Development and optimization of a sequencing batch reactor for nitrogen and phosphorus removal from abattoir wastewater to meet irrigation standards. <i>Water Science and Technology</i> , 2010, 61, 2105-2112.	2.5	13
402	Laboratory assessment of bioproducts for sulphide and methane control in sewer systems. <i>Science of the Total Environment</i> , 2013, 443, 429-437.	8.0	13
403	Inactivation kinetics of anaerobic wastewater biofilms by free nitrous acid. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1367-1376.	3.6	13
404	Data on metagenomic profiles of activated sludge from a full-scale wastewater treatment plant. <i>Data in Brief</i> , 2017, 15, 833-839.	1.0	13
405	A comparative proteomic analysis of <i>Desulfovibrio vulgaris</i> Hildenborough in response to the antimicrobial agent free nitrous acid. <i>Science of the Total Environment</i> , 2019, 672, 625-633.	8.0	13
406	Application of iron-crosslinked sodium alginate for efficient sulfide control and reduction of oilfield produced water. <i>Water Research</i> , 2019, 154, 12-20.	11.3	13
407	Reactive nitrogen species from free nitrous acid (FNA) cause cell lysis. <i>Water Research</i> , 2022, 217, 118401.	11.3	13
408	Dynamic Response of Sulfate-Reducing and Methanogenic Activities of Anaerobic Sewer Biofilms to Ferric Dosing. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 510-517.	1.4	12
409	Expert opinion on risks to the long-term viability of residential recycled water schemes: An Australian study. <i>Water Research</i> , 2017, 120, 133-145.	11.3	12
410	Electrochemical Production of Magnetite Nanoparticles for Sulfide Control in Sewers. <i>Environmental Science & Technology</i> , 2017, 51, 12229-12234.	10.0	12
411	Microbial selenate reduction in membrane biofilm reactors using ethane and propane as electron donors. <i>Water Research</i> , 2020, 183, 116008.	11.3	12
412	Dewaterability enhancement and sulfide mitigation of CEPT sludge by electrochemical pretreatment. <i>Water Research</i> , 2020, 176, 115727.	11.3	12
413	Feasibility of methane bioconversion to methanol by acid-tolerant ammonia-oxidizing bacteria. <i>Water Research</i> , 2021, 197, 117077.	11.3	12
414	Real-Time Predictive Control for Chemical Distribution in Sewer Networks Using Improved Elephant Herding Optimization. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 571-581.	11.3	11

#	ARTICLE	IF	CITATIONS
415	The MOF/GO-based derivatives with Co@CoO core-shell structure supported on the N-doped graphene as electrocatalyst for oxygen reduction reaction. <i>Journal of the Chinese Chemical Society</i> , 2020, 67, 1189-1194.	1.4	11
416	Exploring the Spatial Impact of Green Infrastructure on Urban Drainage Resilience. <i>Water (Switzerland)</i> , 2021, 13, 1789.	2.7	11
417	Synergistic effect on concrete corrosion control in sewer environment achieved by applying surface washing on calcium nitrite admixed concrete. <i>Construction and Building Materials</i> , 2021, 302, 124184.	7.2	11
418	Characteristics of liquid flow in a countercurrent rotating bed. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 136, 72-81.	3.6	11
419	A laboratory assessment of the impact of brewery wastewater discharge on sulfide and methane production in a sewer. <i>Water Science and Technology</i> , 2011, 64, 1614-1619.	2.5	10
420	Model-Based Feasibility Assessment of Membrane Biofilm Reactor to Achieve Simultaneous Ammonium, Dissolved Methane, and Sulfide Removal from Anaerobic Digestion Liquor. <i>Scientific Reports</i> , 2016, 6, 25114.	3.3	10
421	Flow characteristics in free impinging jet reactor by particle image velocimetry (PIV) investigation. <i>Fluid Dynamics Research</i> , 2016, 48, 045505.	1.3	10
422	Estimating rainfall-induced inflow and infiltration in a sanitary sewer system based on water quality modelling: which parameter to use?. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 385-393.	2.4	10
423	Integrated Project Risk Management for Residential Recycled-Water Schemes in Australia. <i>Journal of Management in Engineering - ASCE</i> , 2019, 35, 04018063.	4.8	10
424	Bioleaching of toxic metals from anaerobically digested sludge without external chemical addition. <i>Water Research</i> , 2021, 200, 117211.	11.3	10
425	Interactions of functional microorganisms and their contributions to methane bioconversion to short-chain fatty acids. <i>Water Research</i> , 2021, 199, 117184.	11.3	10
426	Comparative life cycle assessment of sewer corrosion control by iron salts: Suitability analysis and strategy optimization. <i>Water Research</i> , 2021, 201, 117370.	11.3	10
427	Enhancing anaerobic digestion using free nitrous acid: Identifying the optimal pre-treatment condition in continuous operation. <i>Water Research</i> , 2021, 205, 117694.	11.3	10
428	CHAPTER 16. Denitrification Processes for Wastewater Treatment. 2-Oxoglutarate-Dependent Oxygenases, 2016, , 368-418.	0.8	10
429	Corrosion mitigation by nitrite spray on corroded concrete in a real sewer system. <i>Science of the Total Environment</i> , 2022, 806, 151328.	8.0	10
430	Evaluation of continuous and intermittent trickling strategies for the removal of hydrogen sulfide in a biotrickling filter. <i>Chemosphere</i> , 2022, 291, 132723.	8.2	10
431	Transformation and fate of pharmaceuticals, personal care products, and per- and polyfluoroalkyl substances during aerobic digestion of anaerobically digested sludge. <i>Water Research</i> , 2022, 219, 118568.	11.3	10
432	Polyhydroxyalkanoate-driven current generation via acetate by an anaerobic methanotrophic consortium. <i>Water Research</i> , 2022, 221, 118743.	11.3	10

#	ARTICLE	IF	CITATIONS
433	Enhanced triacylglyceride extraction from microalgae using free nitrous acid pre-treatment. Applied Energy, 2015, 154, 183-189.	10.1	9
434	Scaling-Free Electrochemical Production of Caustic and Oxygen for Sulfide Control in Sewers. Environmental Science & Technology, 2015, 49, 11395-11402.	10.0	9
435	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
436	Modeling N ₂ O production by ammonia oxidizing bacteria at varying inorganic carbon concentrations by coupling the catabolic and anabolic processes. Chemical Engineering Science, 2016, 144, 386-394.	3.8	9
437	Exploring alternatives to reduce economical costs associated with FNA pre-treatment of waste activated sludge. Bioresource Technology, 2017, 243, 315-318.	9.6	9
438	In-sewer stability of selected analgesics and their metabolites. Water Research, 2021, 204, 117647.	11.3	9
439	Optimization and Control of Nitrogen Removal Activated Sludge Processes: A Review of Recent Developments. Focus on Biotechnology, 2003, , 187-227.	0.4	9
440	Fate characteristics, exposure risk, and control strategy of typical antibiotics in Chinese sewerage system: A review. Environment International, 2022, 167, 107396.	10.0	9
441	On-line estimation of the maximum specific growth rate of nitrifiers in activated sludge systems. Biotechnology and Bioengineering, 1999, 65, 265-273.	3.3	8
442	Role of indigenous iron in improving sludge dewaterability through peroxidation. Scientific Reports, 2015, 5, 7516.	3.3	8
443	Recovery of ammonium nitrate solution from urine wastewater via novel free nitrous acid (FNA)-mediated two-stage processes. Chemical Engineering Journal, 2022, 440, 135826.	12.7	8
444	Bio-reduced graphene oxide on hollow fibers as gas-diffusible anodes for enhancing bioelectrochemical methane oxidation. Chemical Engineering Journal, 2022, 440, 135811.	12.7	8
445	Sewerage surveillance tracking characteristics of human antibiotic emission in sewage. Journal of Cleaner Production, 2022, 364, 132479.	9.3	8
446	Modeling of Nitrous Oxide Production from Nitritation Reactors Treating Real Anaerobic Digestion Liquor. Scientific Reports, 2016, 6, 25336.	3.3	7
447	Sludge-Drying Lagoons: a Potential Significant Methane Source in Wastewater Treatment Plants. Environmental Science & Technology, 2016, 50, 1368-1375.	10.0	7
448	Development of microbially influenced corrosion on carbon steel in a simulated water injection system. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1826-1836.	1.5	7
449	Cross-feeding interactions in short chain gaseous alkane-driven perchlorate and selenate reduction. Water Research, 2021, 200, 117215.	11.3	7
450	Formation and fate of perfluoroalkyl acids (PFAAs) in a laboratory-scale urban wastewater system. Water Research, 2022, 216, 118295.	11.3	7

#	ARTICLE	IF	CITATIONS
451	Anoxic phosphorus removal in a pilot scale anaerobic-anoxic oxidation ditch process. <i>Frontiers of Environmental Science and Engineering in China</i> , 2009, 3, 106-111.	0.8	6
452	Copper stimulation on methane-supported perchlorate reduction in a membrane biofilm reactor. <i>Journal of Hazardous Materials</i> , 2022, 425, 127917.	12.4	6
453	Re-configuring mainstream anammox. <i>Chemical Engineering Journal</i> , 2022, 445, 136817.	12.7	6
454	Wastewater GHG Accounting Protocols as Compared to the State of GHG Science. <i>Water Environment Research</i> , 2016, 88, 704-714.	2.7	5
455	Nitrite addition to acidified sludge significantly improves digestibility, toxic metal removal, dewaterability and pathogen reduction. <i>Scientific Reports</i> , 2016, 6, 39795.	3.3	5
456	Comparison of different two-pathway models for describing the combined effect of DO and nitrite on the nitrous oxide production by ammonia-oxidizing bacteria. <i>Water Science and Technology</i> , 2017, 75, 491-500.	2.5	5
457	Response of the Anaerobic Methanotrophic Archaeon <i>Candidatus Methanoperedens nitroreducens</i> to the Long-Term Ferrihydrite Amendment. <i>Frontiers in Microbiology</i> , 2022, 13, 799859.	3.5	5
458	Quantifying Methane Evolution from Sewers: Results from WERF/DeKalb Phase 2 "Continuous Monitoring. <i>Proceedings of the Water Environment Federation</i> , 2011, 2011, 3851-3858.	0.0	4
459	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
460	Commentary: "Large-scale psychological differences within China explained by rice vs. wheat agriculture". <i>Frontiers in Psychology</i> , 2015, 6, 489.	2.1	4
461	A greenhouse gas source of surprising significance: anthropogenic CO ₂ emissions from use of methanol in sewage treatment. <i>Water Science and Technology</i> , 2017, 75, 1997-2012.	2.5	4
462	SewerSedFoam: A Model for Free Surface Flow, Sediment Transport, and Deposited Bed Morphology in Sewers. <i>Water (Switzerland)</i> , 2020, 12, 270.	2.7	4
463	A Genome-Scale Metabolic Model of <i>Methanoperedens nitroreducens</i> : Assessing Bioenergetics and Thermodynamic Feasibility. <i>Metabolites</i> , 2022, 12, 314.	2.9	4
464	An approach to verifying and debugging simulation models governed by ordinary differential equations: Part 1. Methodology for residual generation. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 57, 685-706.	2.8	3
465	Response to the comment on "Modelling the PAO-GAO competition: Effects of carbon source, pH and temperature" by Dwight Houweling et al.. <i>Water Research</i> , 2009, 43, 2950-2951.	11.3	3
466	Mechanism of Flue Gas Desulfurization with Sodium Phosphate Solution. <i>Chemical Engineering and Technology</i> , 2014, 37, 2185-2189.	1.5	3
467	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
468	An approach to verifying and debugging simulation models governed by ordinary differential equations: Part 2. Residuals analysis and a case study. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 57, 707-722.	2.8	2

#	ARTICLE	IF	CITATIONS
469	Regeneration of SO ₂ -Loaded Sodium Phosphate Solution in Rotating Packed Bed. Journal of Chemical Engineering of Japan, 2014, 47, 777-781.	0.6	2
470	Revealing the variations in physicochemical, morphological, fractal, and rheological properties of digestate during the mesophilic anaerobic digestion of iron-rich waste activated sludge. Chemosphere, 2020, 254, 126811.	8.2	2
471	Review on the Microbiological and Biochemical Characters of Enhanced Biological Phosphorus Removal System*. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2012, 17, 427-434.	0.1	2
472	CFD Simulation of Dry Pressure Drop in a Cross-Flow Rotating Packed Bed. Applied Sciences (Switzerland), 2021, 11, 10099.	2.5	2
473	Control of nitrate recirculation flow in predenitrification systems. Water Science and Technology, 2002, 45, 29-36.	2.5	2
474	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
475	An investigation into the impacts of water demand management and decentralized water recycling on excess sewer sediment deposition. Journal of Environmental Management, 2021, 279, 111788.	7.8	1
476	Model-based Management and Control of the Bioreactions in a Collection System. Proceedings of the Water Environment Federation, 2018, 2018, 2700-2708.	0.0	1
477	DEVELOPMENT OF A 2-SLUDGE, 3-STAGE SYSTEM FOR NITROGEN AND PHOSPHORUS REMOVAL FROM HIGH-STRENGTH WASTEWATER USING GRANULAR SLUDGE AND BIOFILMS. Proceedings of the Water Environment Federation, 2007, 2007, 145-157.	0.0	0
478	METABOLIC MODEL OF THE AEROBIC METABOLISM OF POLYPHOSPHATE ACCUMULATING ORGANISMS WITH A PROPIONATE CARBON SOURCE. Proceedings of the Water Environment Federation, 2007, 2007, 1243-1255.	0.0	0
479	Advanced Wastewater Treatment and Mathematical Modeling. Journal of Environmental Engineering, ASCE, 2020, 146, 02020002.	1.4	0
480	South Australia Water Corporation's Pro-active Corrosion and Odour Management Strategy Development. Proceedings of the Water Environment Federation, 2015, 2015, 919-935.	0.0	0
481	Wastewater Methanol Use: A Surprisingly Significant Scope-1 GHG Emission Source. Proceedings of the Water Environment Federation, 2016, 2016, 5860-5864.	0.0	0
482	Developing and Validating a Model to Assess Sewer Sediment Issues from Changing Wastewater Inflows and Concentration. Green Energy and Technology, 2019, , 836-841.	0.6	0
483	Sulfur Capacity of Sodium Phosphate Buffer Solution. Journal of Chemical Engineering of Japan, 2019, 52, 204-209.	0.6	0
484	Modelling of methane production and emissions. , 2022, , 197-212.		0
485	Modelling N ₂ O production and emissions. , 2022, , 167-196.		0