## Zhiguo Yuan

List of Publications by Year in descending order

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485 papers 34,593 citations

2309 101 h-index 156 g-index

491 all docs

491 docs citations

times ranked

491

17797 citing authors

#	Article	IF	CITATIONS
1	Anaerobic oxidation of methane coupled to nitrate reduction in a novel archaeal lineage. Nature, 2013, 500, 567-570.	13.7	1,029
2	Advances in enhanced biological phosphorus removal: From micro to macro scale. Water Research, 2007, 41, 2271-2300.	5.3	998
3	Metagenomic analysis reveals wastewater treatment plants as hotspots of antibiotic resistance genes and mobile genetic elements. Water Research, 2017, 123, 468-478.	5.3	604
4	Microbial fuel cells for simultaneous carbon and nitrogen removal. Water Research, 2008, 42, 3013-3024.	5.3	412
5	Simultaneous nitrification, denitrification, and phosphorus removal in a lab-scale sequencing batch reactor. Biotechnology and Bioengineering, 2003, 84, 170-178.	1.7	391
6	Phosphorus recovery from wastewater through microbial processes. Current Opinion in Biotechnology, 2012, 23, 878-883.	3.3	360
7	Nitrous oxide emissions from wastewater treatment processes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1265-1277.	1.8	358
8	Nitrous oxide generation in full-scale biological nutrient removal wastewater treatment plants. Water Research, 2010, 44, 831-844.	5.3	352
9	Simultaneous nitrification, denitrification and carbon removal in microbial fuel cells. Water Research, 2010, 44, 2970-2980.	5.3	341
10	Partial nitrification to nitrite using low dissolved oxygen concentration as the main selection factor. Biodegradation, 2008, 19, 303-312.	1.5	336
11	Kinetic characterisation of an enriched Nitrospira culture with comparison to Nitrobacter. Water Research, 2007, 41, 3033-3042.	5.3	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. Microbial Cell Factories, 2015, 14, 33.	1.9	323
13	Modeling the PAO–GAO competition: Effects of carbon source, pH and temperature. Water Research, 2009, 43, 450-462.	5.3	309
14	Decolorization of Azo Dyes in Bioelectrochemical Systems. Environmental Science & Emp; Technology, 2009, 43, 5137-5143.	4.6	299
15	A methanotrophic archaeon couples anaerobic oxidation of methane to Fe(III) reduction. ISME Journal, 2018, 12, 1929-1939.	4.4	266
16	Methane formation in sewer systems. Water Research, 2008, 42, 1421-1430.	5.3	254
17	Metabolic model for glycogen-accumulating organisms in anaerobic/aerobic activated sludge systems. Biotechnology and Bioengineering, 2003, 81, 92-105.	1.7	251
18	Non-catalyzed cathodic oxygen reduction at graphite granules in microbial fuel cells. Electrochimica Acta, 2007, 53, 598-603.	2.6	250

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19	Antiepileptic drug carbamazepine promotes horizontal transfer of plasmid-borne multi-antibiotic resistance genes within and across bacterial genera. ISME Journal, 2019, 13, 509-522.	4.4	245
20	Optimisation of poly-Î <sup>2</sup> -hydroxyalkanoate analysis using gas chromatography for enhanced biological phosphorus removal systems. Journal of Chromatography A, 2005, 1070, 131-136.	1.8	244
21	Gas diffusion electrodes (GDEs) for electrochemical reduction of carbon dioxide, carbon monoxide, and dinitrogen to value-added products: a review. Energy and Environmental Science, 2021, 14, 1959-2008.	15.6	243
22	Free Nitrous Acid (FNA)-Based Pretreatment Enhances Methane Production from Waste Activated Sludge. Environmental Science & En	4.6	234
23	Comparison of acetate and propionate uptake by polyphosphate accumulating organisms and glycogen accumulating organisms. Biotechnology and Bioengineering, 2005, 91, 162-168.	1.7	233
24	Electron and Carbon Balances in Microbial Fuel Cells Reveal Temporary Bacterial Storage Behavior During Electricity Generation. Environmental Science & Eamp; Technology, 2007, 41, 2915-2921.	4.6	231
25	Free Nitrous Acid Inhibition on Nitrous Oxide Reduction by a Denitrifying-Enhanced Biological Phosphorus Removal Sludge. Environmental Science & Envir	4.6	222
26	Achieving Mainstream Nitrogen Removal through Coupling Anammox with Denitratation. Environmental Science & Environmental Scien	4.6	222
27	Simultaneous nitrification, denitrification, and phosphorus removal from nutrientâ€ich industrial wastewater using granular sludge. Biotechnology and Bioengineering, 2008, 100, 529-541.	1.7	215
28	Nitrogen Removal from Wastewater by Coupling Anammox and Methane-Dependent Denitrification in a Membrane Biofilm Reactor. Environmental Science & Environmental Science & 157-11583.	4.6	214
29	Obtaining highly enriched cultures of Candidatus Accumulibacter phosphates through alternating carbon sources. Water Research, 2006, 40, 3838-3848.	5 <b>.</b> 3	207
30	Side-stream sludge treatment using free nitrous acid selectively eliminates nitrite oxidizing bacteria and achieves the nitrite pathway. Water Research, 2014, 55, 245-255.	<b>5.</b> 3	205
31	Anaerobic methane oxidation coupled to manganese reduction by members of the <i>Methanoperedenaceae</i> . ISME Journal, 2020, 14, 1030-1041.	4.4	203
32	Electron competition among nitrogen oxides reduction during methanol-utilizing denitrification in wastewater treatment. Water Research, 2013, 47, 3273-3281.	<b>5.</b> 3	200
33	Effect of free ammonia on the respiration and growth processes of an enriched Nitrobacter culture. Water Research, 2007, 41, 826-834.	<b>5.</b> 3	198
34	Enrichment of denitrifying anaerobic methane oxidizing microorganisms. Environmental Microbiology Reports, 2009, 1, 377-384.	1.0	196
35	Reducing sewer corrosion through integrated urban water management. Science, 2014, 345, 812-814.	6.0	194
36	Achieving nitrogen removal via nitrite in a pilot-scale continuous pre-denitrification plant. Water Research, 2009, 43, 563-572.	<b>5.</b> 3	190

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37	N2O production rate of an enriched ammonia-oxidising bacteria culture exponentially correlates to its ammonia oxidation rate. Water Research, 2012, 46, 3409-3419.	5.3	190
38	Effect of free ammonia and free nitrous acid concentration on the anabolic and catabolic processes of an enrichedNitrosomonas culture. Biotechnology and Bioengineering, 2006, 95, 830-839.	1.7	186
39	Syntrophic Processes Drive the Conversion of Glucose in Microbial Fuel Cell Anodes. Environmental Science & Environmental Scie	4.6	186
40	Achieving Stable Mainstream Nitrogen Removal via the Nitrite Pathway by Sludge Treatment Using Free Ammonia. Environmental Science & Environmental Sci	4.6	186
41	The Inhibitory Effects of Free Nitrous Acid on the Energy Generation and Growth Processes of an EnrichedNitrobacterCulture. Environmental Science & EnrichedNitrobacterCulture.	4.6	185
42	Triclosan at environmentally relevant concentrations promotes horizontal transfer of multidrug resistance genes within and across bacterial genera. Environment International, 2018, 121, 1217-1226.	4.8	182
43	Sequential anode–cathode configuration improves cathodic oxygen reduction and effluent quality of microbial fuel cells. Water Research, 2008, 42, 1387-1396.	5.3	181
44	Anaerobic metabolism of propionate by polyphosphate-accumulating organisms in enhanced biological phosphorus removal systems. Biotechnology and Bioengineering, 2005, 91, 43-53.	1.7	179
45	Demonstration of nitrogen removal via nitrite in a sequencing batch reactor treating domestic wastewater. Water Research, 2008, 42, 2166-2176.	5.3	179
46	Both silver ions and silver nanoparticles facilitate the horizontal transfer of plasmid-mediated antibiotic resistance genes. Water Research, 2020, 169, 115229.	5.3	179
47	Aerobic sludge granulation: A tale of two polysaccharides?. Water Research, 2012, 46, 4803-4813.	5.3	177
48	Competition between polyphosphate and glycogen accumulating organisms in enhanced biological phosphorus removal systems with acetate and propionate as carbon sources. Journal of Biotechnology, 2006, 123, 22-32.	1.9	174
49	Copper nanoparticles and copper ions promote horizontal transfer of plasmid-mediated multi-antibiotic resistance genes across bacterial genera. Environment International, 2019, 129, 478-487.	4.8	171
50	The strong biocidal effect of free nitrous acid on anaerobic sewer biofilms. Water Research, 2011, 45, 3735-3743.	5.3	169
51	Effect of pH on N2O reduction and accumulation during denitrification by methanol utilizing denitrifiers. Water Research, 2012, 46, 4832-4840.	5.3	169
52	The effect of pH on the competition between polyphosphate-accumulating organisms and glycogen-accumulating organisms. Water Research, 2005, 39, 3727-3737.	5.3	167
53	Effects of long-term pH elevation on the sulfate-reducing and methanogenic activities of anaerobic sewer biofilms. Water Research, 2009, 43, 2549-2557.	5.3	165
54	Free ammonia enhances dark fermentative hydrogen production from waste activated sludge. Water Research, 2018, 133, 272-281.	5.3	163

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55	Identification and comparison of aerobic and denitrifying polyphosphate-accumulating organisms. Biotechnology and Bioengineering, 2003, 83, 140-148.	1.7	162
56	Biofilm stratification during simultaneous nitrification and denitrification (SND) at a biocathode. Bioresource Technology, 2011, 102, 334-341.	4.8	160
57	Enrichment of denitrifying glycogen-accumulating organisms in anaerobic/anoxic activated sludge system. Biotechnology and Bioengineering, 2003, 81, 397-404.	1.7	159
58	Chemical dosing for sulfide control in Australia: An industry survey. Water Research, 2011, 45, 6564-6574.	5.3	156
59	Sulfur transformation in rising main sewers receiving nitrate dosage. Water Research, 2009, 43, 4430-4440.	5.3	155
60	Inhibition of sulfate-reducing and methanogenic activities of anaerobic sewer biofilms by ferric iron dosing. Water Research, 2009, 43, 4123-4132.	5.3	153
61	The effect of pH on N2O production under aerobic conditions in a partial nitritation system. Water Research, 2011, 45, 5934-5944.	5.3	152
62	Overcoming Nitrite Oxidizing Bacteria Adaptation through Alternating Sludge Treatment with Free Nitrous Acid and Free Ammonia. Environmental Science & Eamp; Technology, 2019, 53, 1937-1946.	4.6	152
63	Gel-forming exopolysaccharides explain basic differences between structures of aerobic sludge granules and floccular sludges. Water Research, 2009, 43, 4469-4478.	5.3	151
64	The combined effect of dissolved oxygen and nitrite on N2O production by ammonia oxidizing bacteria in an enriched nitrifying sludge. Water Research, 2015, 73, 29-36.	5.3	147
65	Achieving high-level nitrogen removal in mainstream by coupling anammox with denitrifying anaerobic methane oxidation in a membrane biofilm reactor. Water Research, 2018, 131, 196-204.	5.3	146
66	Identifying causes for N2O accumulation in a lab-scale sequencing batch reactor performing simultaneous nitrification, denitrification and phosphorus removal. Journal of Biotechnology, 2006, 122, 62-72.	1.9	139
67	Dynamics and dynamic modelling of H2S production in sewer systems. Water Research, 2008, 42, 2527-2538.	5.3	139
68	Enhancing methane production from waste activated sludge using combined free nitrous acid and heat pre-treatment. Water Research, 2014, 63, 71-80.	5.3	139
69	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. Water Research, 2018, 145, 113-124.	5.3	137
70	Evaluation of oxygen injection as a means of controlling sulfide production in a sewer system. Water Research, 2008, 42, 4549-4561.	5.3	135
71	Reducing the startup time of aerobic granular sludge reactors through seeding floccular sludge with crushed aerobic granules. Water Research, 2011, 45, 5075-5083.	5.3	135
72	Metagenomic analysis of anammox communities in three different microbial aggregates. Environmental Microbiology, 2016, 18, 2979-2993.	1.8	133

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73	Non-antibiotic pharmaceuticals enhance the transmission of exogenous antibiotic resistance genes through bacterial transformation. ISME Journal, 2020, 14, 2179-2196.	4.4	133
74	Micro-scale observations of the structure of aerobic microbial granules used for the treatment of nutrient-rich industrial wastewater. ISME Journal, 2008, 2, 528-541.	4.4	131
75	Non-antibiotic antimicrobial triclosan induces multiple antibiotic resistance through genetic mutation. Environment International, 2018, 118, 257-265.	4.8	131
76	Free nitrous acid pre-treatment of waste activated sludge enhances volatile solids destruction and improves sludge dewaterability in continuous anaerobic digestion. Water Research, 2018, 130, 13-19.	5.3	127
77	Free nitrous acid inhibition on anoxic phosphorus uptake and denitrification by poly-phosphate accumulating organisms. Biotechnology and Bioengineering, 2007, 98, 903-912.	1.7	126
78	Electron Fluxes in a Microbial Fuel Cell Performing Carbon and Nitrogen Removal. Environmental Science & Environmental Science	4.6	126
79	Iron salts dosage for sulfide control in sewers induces chemical phosphorus removal during wastewater treatment. Water Research, 2010, 44, 3467-3475.	5.3	126
80	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. Environmental Science & Environmental Science	4.6	124
81	The effect of dissolved oxygen on N 2 O production by ammonia-oxidizing bacteria in an enriched nitrifying sludge. Water Research, 2014, 66, 12-21.	5.3	123
82	Complete Nitrogen Removal from Synthetic Anaerobic Sludge Digestion Liquor through Integrating Anammox and Denitrifying Anaerobic Methane Oxidation in a Membrane Biofilm Reactor. Environmental Science & Environmental Science amp; Technology, 2017, 51, 819-827.	4.6	122
83	Spontaneous electrochemical removal of aqueous sulfide. Water Research, 2008, 42, 4965-4975.	5.3	120
84	Modeling Electron Competition among Nitrogen Oxides Reduction and N <sub>2</sub> O Accumulation in Denitrification. Environmental Science & Environmenta	4.6	119
85	Corrosion and odor management in sewer systems. Current Opinion in Biotechnology, 2015, 33, 192-197.	3.3	119
86	Highâ€Content, Wellâ€Dispersed γâ€Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Encapsulated in Macroporous Silica with Superior Arsenic Removal Performance. Advanced Functional Materials, 2014, 24, 1354-1363.	7.8	118
87	Effects of sewer conditions on the degradation of selected illicit drug residues in wastewater. Water Research, 2014, 48, 538-547.	5.3	115
88	A novel conditioning process for enhancing dewaterability of waste activated sludge by combination of zero-valent iron and persulfate. Bioresource Technology, 2015, 185, 416-420.	4.8	114
89	Nitrate reduction by denitrifying anaerobic methane oxidizing microorganisms can reach a practically useful rate. Water Research, 2015, 87, 211-217.	5.3	114
90	Antidepressant fluoxetine induces multiple antibiotics resistance in Escherichia coli via ROS-mediated mutagenesis. Environment International, 2018, 120, 421-430.	4.8	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. Water Research, 2020, 179, 115878.	5.3	112
92	Technologies for reducing sludge production in wastewater treatment plants: State of the art. Science of the Total Environment, 2017, 587-588, 510-521.	3.9	111
93	Improving wastewater management using free nitrous acid (FNA). Water Research, 2020, 171, 115382.	5.3	111
94	Modeling of Nitrous Oxide Production by Autotrophic Ammonia-Oxidizing Bacteria with Multiple Production Pathways. Environmental Science & Environmental Science & 2014, 48, 3916-3924.	4.6	110
95	Free nitrous acid inhibition on the aerobic metabolism of poly-phosphate accumulating organisms. Water Research, 2010, 44, 6063-6072.	5.3	109
96	Anaerobic and aerobic metabolism of glycogen-accumulating organisms selected with propionate as the sole carbon source. Microbiology (United Kingdom), 2006, 152, 2767-2778.	0.7	108
97	Could polyphosphate-accumulating organisms (PAOs) be glycogen-accumulating organisms (GAOs)?. Water Research, 2008, 42, 2361-2368.	5.3	107
98	Development of a model for assessing methane formation in rising main sewers. Water Research, 2009, 43, 2874-2884.	5.3	107
99	Suppressing Nitrite-oxidizing Bacteria Growth to Achieve Nitrogen Removal from Domestic Wastewater via Anammox Using Intermittent Aeration with Low Dissolved Oxygen. Scientific Reports, 2015, 5, 13048.	1.6	107
100	Impact of nitrate addition on biofilm properties and activities in rising main sewers. Water Research, 2009, 43, 4225-4237.	5.3	106
101	Recent advances in mathematical modeling of nitrous oxides emissions from wastewater treatment processes. Water Research, 2015, 87, 336-346.	5.3	106
102	Predicting concrete corrosion of sewers using artificial neural network. Water Research, 2016, 92, 52-60.	5.3	106
103	A 20-Year Journey of Partial Nitritation and Anammox (PN/A): from Sidestream toward Mainstream. Environmental Science & December 2022, 56, 7522-7531.	4.6	106
104	Achieving Stable Nitritation for Mainstream Deammonification by Combining Free Nitrous Acid-Based Sludge Treatment and Oxygen Limitation. Scientific Reports, 2016, 6, 25547.	1.6	104
105	Effect of nitrate and nitrite on the selection of microorganisms in the denitrifying anaerobic methane oxidation process. Environmental Microbiology Reports, 2011, 3, 315-319.	1.0	103
106	Understanding the properties of aerobic sludge granules as hydrogels. Biotechnology and Bioengineering, 2009, 102, 1483-1493.	1.7	102
107	Mathematical Modeling of Nitrous Oxide (N <sub>2</sub> 0) Emissions from Full-Scale Wastewater Treatment Plants. Environmental Science & Environmental S	4.6	102
108	Unraveling microbial structure and diversity of activated sludge in a full-scale simultaneous nitrogen and phosphorus removal plant using metagenomic sequencing. Enzyme and Microbial Technology, 2017, 102, 16-25.	1.6	100

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109	Effects of nitrite concentration and exposure time on sulfide and methane production in sewer systems. Water Research, 2010, 44, 4241-4251.	5.3	99
110	Sludge population optimisation: a new dimension for the control of biological wastewater treatment systems. Water Research, 2002, 36, 482-490.	<b>5.</b> 3	98
111	Achieving the nitrite pathway using aeration phase length control and stepâ€feed in an SBR removing nutrients from abattoir wastewater. Biotechnology and Bioengineering, 2008, 100, 1228-1236.	1.7	96
112	Fossil organic carbon in wastewater and its fate in treatment plants. Water Research, 2013, 47, 5270-5281.	<b>5.</b> 3	96
113	Impact of in-Sewer Degradation of Pharmaceutical and Personal Care Products (PPCPs) Population Markers on a Population Model. Environmental Science &	4.6	96
114	Stratified Microbial Structure and Activity in Sulfide- and Methane-Producing Anaerobic Sewer Biofilms. Applied and Environmental Microbiology, 2014, 80, 7042-7052.	1.4	95
115	Electrochemical sulfide oxidation from domestic wastewater using mixed metal-coated titanium electrodes. Water Research, 2011, 45, 5381-5388.	5.3	93
116	Improving secondary sludge biodegradability using free nitrous acid treatment. Bioresource Technology, 2012, 116, 92-98.	4.8	93
117	Impact of Iron Salt Dosage to Sewers on Downstream Anaerobic Sludge Digesters: Sulfide Control and Methane Production. Journal of Environmental Engineering, ASCE, 2013, 139, 594-601.	0.7	93
118	Dosing free nitrous acid for sulfide control in sewers: Results of field trials in Australia. Water Research, 2013, 47, 4331-4339.	<b>5.</b> 3	92
119	The role of iron in sulfide induced corrosion ofÂsewer concrete. Water Research, 2014, 49, 166-174.	<b>5.</b> 3	92
120	Inactivation and adaptation of ammonia-oxidizing bacteria and nitrite-oxidizing bacteria when exposed to free nitrous acid. Bioresource Technology, 2017, 245, 1266-1270.	4.8	92
121	Biochar-Mediated Anaerobic Oxidation of Methane. Environmental Science & Envir	4.6	92
122	Rationally designed functional macroporous materials as new adsorbents for efficient phosphorus removal. Journal of Materials Chemistry, 2012, 22, 9983.	6.7	90
123	Microbial distribution of <i>Accumulibacter</i> spp. and <i>Competibacter</i> spp. in aerobic granules from a labâ€scale biological nutrient removal system. Environmental Microbiology, 2008, 10, 354-363.	1.8	86
124	Dissolved methane in rising main sewer systems: field measurements and simple model development for estimating greenhouse gas emissions. Water Science and Technology, 2009, 60, 2963-2971.	1.2	85
125	Hydrolysis, acidification and dewaterability of waste activated sludge under alkaline conditions: Combined effects of NaOH and Ca(OH)2. Bioresource Technology, 2013, 136, 237-243.	4.8	85
126	Evaluating four mathematical models for nitrous oxide production by autotrophic ammoniaâ€oxidizing bacteria. Biotechnology and Bioengineering, 2013, 110, 153-163.	1.7	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. Biotechnology and Bioengineering, 2003, 81, 482-495.	1.7	84
128	A review on sludge conditioning by sludge pre-treatment with a focus on advanced oxidation. RSC Advances, 2014, 4, 50644-50652.	1.7	83
129	Odor emissions from domestic wastewater: A review. Critical Reviews in Environmental Science and Technology, 2017, 47, 1581-1611.	6.6	83
130	Producing free nitrous acid – A green and renewable biocidal agent – From anaerobic digester liquor. Chemical Engineering Journal, 2015, 259, 62-69.	6.6	82
131	Endogenous metabolism of Candidatus Accumulibacter phosphatis under various starvation conditions. Water Research, 2007, 41, 4646-4656.	5.3	81
132	Microbial Selenate Reduction Driven by a Denitrifying Anaerobic Methane Oxidation Biofilm. Environmental Science & Environment	4.6	81
133	Unravelling adaptation of nitrite-oxidizing bacteria in mainstream PN/A process: Mechanisms and counter-strategies. Water Research, 2021, 200, 117239.	5.3	81
134	Control of nitrate recirculation flow in predenitrification systems. Water Science and Technology, 2002, 45, 29-36.	1.2	80
135	Electrochemical sulfide removal and recovery from paper mill anaerobic treatment effluent. Water Research, 2010, 44, 2563-2571.	5.3	80
136	Breakage and growth towards a stable aerobic granule size during the treatment of wastewater. Water Research, 2013, 47, 5338-5349.	5.3	80
137	Modeling of Simultaneous Anaerobic Methane and Ammonium Oxidation in a Membrane Biofilm Reactor. Environmental Science & Envir	4.6	80
138	High-level nitrogen removal by simultaneous partial nitritation, anammox and nitrite/nitrate-dependent anaerobic methane oxidation. Water Research, 2019, 166, 115057.	5.3	80
139	Simultaneous removal of antibiotic resistant bacteria, antibiotic resistance genes, and micropollutants by a modified photo-Fenton process. Water Research, 2021, 197, 117075.	5.3	80
140	Production of targeted poly(3-hydroxyalkanoates) copolymers by glycogen accumulating organisms using acetate as sole carbon source. Journal of Biotechnology, 2007, 129, 489-497.	1.9	79
141	Involvement of the TCA cycle in the anaerobic metabolism of polyphosphate accumulating organisms (PAOs). Water Research, 2009, 43, 1330-1340.	5.3	78
142	Purification and Conformational Analysis of a Key Exopolysaccharide Component of Mixed Culture Aerobic Sludge Granules. Environmental Science & Enviro	4.6	78
143	Sulfide and methane production in sewer sediments. Water Research, 2015, 70, 350-359.	5.3	78
144	Effects of nitrate dosing on methanogenic activity in a sulfide-producing sewer biofilm reactor. Water Research, 2013, 47, 1783-1792.	5.3	77

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145	The Confounding Effect of Nitrite on N <sub>2</sub> O Production by an Enriched Ammonia-Oxidizing Culture. Environmental Science & Environmental Science	4.6	77
146	Feasibility of sulfide control in sewers by reuse ofÂiron rich drinking water treatment sludge. Water Research, 2015, 71, 150-159.	5.3	77
147	Methane-supported nitrate removal from groundwater in a membrane biofilm reactor. Water Research, 2018, 132, 71-78.	5.3	77
148	Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO2 reduction to formate. Applied Catalysis B: Environmental, 2021, 286, 119945.	10.8	77
149	Free nitrous acid (FNA) inhibition on denitrifying poly-phosphate accumulating organisms (DPAOs). Applied Microbiology and Biotechnology, 2010, 88, 359-369.	1.7	76
150	Quantifying nitrous oxide production pathways in wastewater treatment systems using isotope technology – A critical review. Water Research, 2017, 122, 96-113.	5.3	76
151	Sweating the assets – The role of instrumentation, control and automation in urban water systems. Water Research, 2019, 155, 381-402.	5.3	76
152	Non-antibiotic pharmaceuticals promote the transmission of multidrug resistance plasmids through intra- and intergenera conjugation. ISME Journal, 2021, 15, 2493-2508.	4.4	76
153	Anaerobic metabolism of Defluviicoccus vanus related glycogen accumulating organisms (GAOs) with acetate and propionate as carbon sources. Water Research, 2007, 41, 1885-1896.	5.3	<b>7</b> 5
154	Electrochemical Abatement of Hydrogen Sulfide from Waste Streams. Critical Reviews in Environmental Science and Technology, 2015, 45, 1555-1578.	6.6	75
155	Triclosan at environmental concentrations can enhance the spread of extracellular antibiotic resistance genes through transformation. Science of the Total Environment, 2020, 713, 136621.	3.9	75
156	A free nitrous acid (FNA)-based technology for reducing sludge production. Water Research, 2013, 47, 3663-3672.	5.3	74
157	Assessment of pH shock as a method for controlling sulfide and methane formation in pressure main sewer systems. Water Research, 2014, 48, 569-578.	5.3	74
158	Biotransformation of pharmaceuticals by ammonia oxidizing bacteria in wastewater treatment processes. Science of the Total Environment, 2016, 566-567, 796-805.	3.9	74
159	Assessing the Spatial and Temporal Variability of Diffusive Methane and Nitrous Oxide Emissions from Subtropical Freshwater Reservoirs. Environmental Science & Environmental Science & 2014, 48, 14499-14507.	4.6	<b>7</b> 3
160	Characterisation of polyhydroxyalkanoate copolymers with controllable four-monomer composition. Journal of Biotechnology, 2008, 134, 137-145.	1.9	72
161	Optimization of intermittent, simultaneous dosage of nitrite and hydrochloric acid to control sulfide and methane productions in sewers. Water Research, 2011, 45, 6163-6172.	5.3	72
162	Filamentous and non-filamentous bulking of activated sludge encountered under nutrients limitation or deficiency conditions. Chemical Engineering Journal, 2014, 255, 453-461.	6.6	72

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163	Copper Oxide Nanoparticles Induce Lysogenic Bacteriophage and Metal-Resistance Genes in <i>Pseudomonas aeruginosa (i) PAO1. ACS Applied Materials &amp; Interfaces, 2017, 9, 22298-22307.</i>	4.0	72
164	Determination of Growth Rate and Yield of Nitrifying Bacteria by Measuring Carbon Dioxide Uptake Rate. Water Environment Research, 2007, 79, 2437-2445.	1.3	71
165	A laboratory investigation of interactions between denitrifying anaerobic methane oxidation (DAMO) and anammox processes in anoxic environments. Scientific Reports, 2015, 5, 8706.	1.6	71
166	Role of Sulfur during Acetate Oxidation in Biological Anodes. Environmental Science & Emp; Technology, 2009, 43, 3839-3845.	4.6	69
167	Evaluating two concepts for the modelling of intermediates accumulation during biological denitrification in wastewater treatment. Water Research, 2015, 71, 21-31.	5.3	69
168	Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient CO <sub>2</sub> Reduction to Formate by Controlled Surface Sn Electrodeposition. ACS Applied Materials & Samp; Interfaces, 2020, 12, 21670-21681.	4.0	69
169	A new approach to simultaneous ammonium and dissolved methane removal from anaerobic digestion liquor: A model-based investigation of feasibility. Water Research, 2015, 85, 295-303.	5.3	68
170	Nitrite oxidizing bacteria (NOB) contained in influent deteriorate mainstream NOB suppression by sidestream inactivation. Water Research, 2019, 162, 331-338.	5.3	68
171	Proposed modifications to metabolic model for glycogen-accumulating organisms under anaerobic conditions. Biotechnology and Bioengineering, 2002, 80, 277-279.	1.7	67
172	Electrochemical sulfide removal from synthetic and real domestic wastewater at high current densities. Water Research, 2011, 45, 2281-2289.	5.3	66
173	Methane emission from sewers. Science of the Total Environment, 2015, 524-525, 40-51.	3.9	66
174	Methane and nitrous oxide emissions from a subtropical estuary (the Brisbane River estuary,) Tj ETQq0 0 0 rgBT	/Oyerlock	10 <sub>.75</sub> 50 302
175	Role of extracellular polymeric substances in improvement of sludge dewaterability through peroxidation. Bioresource Technology, 2015, 192, 817-820.	4.8	65
176	Stability of alcohol and tobacco consumption biomarkers in a real rising main sewer. Water Research, 2018, 138, 19-26.	5.3	64
177	Stoichiometric and kinetic characterisation of Nitrobacter in mixed culture by decoupling the growth and energy generation processes. Biotechnology and Bioengineering, 2006, 94, 1176-1188.	1.7	62
178	Selectively inducing the synthesis of a key structural exopolysaccharide in aerobic granules by enriching for Candidatus "Competibacter phosphatis― Applied Microbiology and Biotechnology, 2011, 92, 1297-1305.	1.7	62
179	Modeling nitrogen removal with partial nitritation and anammox in one floc-based sequencing batch reactor. Water Research, 2014, 67, 321-329.	5.3	62
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