

# Zhiguo Yuan

## List of Publications by Year in descending order

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485  
papers

34,593  
citations

1990

101  
h-index

6643

156  
g-index

491  
all docs

491  
docs citations

491  
times ranked

15951  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.2	11
2	Insights of metallic nanoparticles and ions in accelerating the bacterial uptake of antibiotic resistance genes. <i>Journal of Hazardous Materials</i> , 2022, 421, 126728.	6.5	38
3	Corrosion mitigation by nitrite spray on corroded concrete in a real sewer system. <i>Science of the Total Environment</i> , 2022, 806, 151328.	3.9	10
4	Evaluation of continuous and intermittent trickling strategies for the removal of hydrogen sulfide in a biotrickling filter. <i>Chemosphere</i> , 2022, 291, 132723.	4.2	10
5	Copper stimulation on methane-supported perchlorate reduction in a membrane biofilm reactor. <i>Journal of Hazardous Materials</i> , 2022, 425, 127917.	6.5	6
6	Swift hydraulic models for real-time control applications in sewer networks. <i>Water Research</i> , 2022, 213, 118141.	5.3	14
7	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.	6.5	49
8	An Integrated First Principal and Deep Learning Approach for Modeling Nitrous Oxide Emissions from Wastewater Treatment Plants. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2816-2826.	4.6	23
9	Gravity settling and centrifugation increase the acid buffer capacity of activated sludge. <i>Science of the Total Environment</i> , 2022, 820, 153231.	3.9	3
10	A Genome-Scale Metabolic Model of <i>Methanoperedens nitroreducens</i> : Assessing Bioenergetics and Thermodynamic Feasibility. <i>Metabolites</i> , 2022, 12, 314.	1.3	4
11	Reactive nitrogen species from free nitrous acid (FNA) cause cell lysis. <i>Water Research</i> , 2022, 217, 118401.	5.3	13
12	Modelling of methane production and emissions. , 2022, , 197-212.		0
13	Modelling N <sub>2</sub> O production and emissions. , 2022, , 167-196.		0
14	Formation and fate of perfluoroalkyl acids (PFAAs) in a laboratory-scale urban wastewater system. <i>Water Research</i> , 2022, 216, 118295.	5.3	7
15	Recovery of ammonium nitrate solution from urine wastewater via novel free nitrous acid (FNA)-mediated two-stage processes. <i>Chemical Engineering Journal</i> , 2022, 440, 135826.	6.6	8
16	Bio-reduced graphene oxide on hollow fibers as gas-diffusible anodes for enhancing bioelectrochemical methane oxidation. <i>Chemical Engineering Journal</i> , 2022, 440, 135811.	6.6	8
17	Regulating the reaction zone of electrochemical CO <sub>2</sub> reduction on gas-diffusion electrodes by distinctive hydrophilic-hydrophobic catalyst layers. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121362.	10.8	21
18	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.	1.5	5

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19	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.	5.3	10
20	Re-configuring mainstream anammox. <i>Chemical Engineering Journal</i> , 2022, 445, 136817.	6.6	6
21	Transforming anaerobically digested sludge into high-quality biosolids with an integrated physiochemical approach. <i>Resources, Conservation and Recycling</i> , 2022, 184, 106416.	5.3	22
22	Sewerage surveillance tracking characteristics of human antibiotic emission in sewage. <i>Journal of Cleaner Production</i> , 2022, 364, 132479.	4.6	8
23	Wastewater Primary Treatment Using Forward Osmosis Introduces Inhibition to Achieve Stable Mainstream Partial Nitrification. <i>Environmental Science &amp; Technology</i> , 2022, 56, 8663-8672.	4.6	15
24	A 20-Year Journey of Partial Nitritation and Anammox (PN/A): from Sidestream toward Mainstream. <i>Environmental Science &amp; Technology</i> , 2022, 56, 7522-7531.	4.6	106
25	Polyhydroxyalkanoate-driven current generation via acetate by an anaerobic methanotrophic consortium. <i>Water Research</i> , 2022, 221, 118743.	5.3	10
26	Simultaneous Removal of Antibiotic Resistant Bacteria, Antibiotic Resistance Genes, and Micropollutants by FeS <sub>2</sub> @GO-Based Heterogeneous Photo-Fenton Process. <i>Environmental Science &amp; Technology</i> , 2022, 56, 15156-15166.	4.6	31
27	Fate characteristics, exposure risk, and control strategy of typical antibiotics in Chinese sewerage system: A review. <i>Environment International</i> , 2022, 167, 107396.	4.8	9
28	Increasing the removal efficiency of antibiotic resistance through anaerobic digestion with free nitrous acid pretreatment. <i>Journal of Hazardous Materials</i> , 2022, 438, 129535.	6.5	17
29	Structural changes in model compounds of sludge extracellular polymeric substances caused by exposure to free nitrous acid. <i>Water Research</i> , 2021, 188, 116553.	5.3	19
30	Temperature Variations Shape Niche Occupation of <i>Nitrotoga</i> -like Bacteria in Activated Sludge. <i>ACS ES&amp;T Water</i> , 2021, 1, 167-174.	2.3	18
31	Study of free nitrous acid (FNA)-based elimination of sulfamethoxazole: Kinetics, transformation pathways, and toxicity assessment. <i>Water Research</i> , 2021, 189, 116629.	5.3	20
32	Recovery of Nitrous Oxide from Wastewater Treatment: Current Status and Perspectives. <i>ACS ES&amp;T Water</i> , 2021, 1, 240-250.	2.3	16
33	Anaerobic Oxidation of Methane Coupled with Dissimilatory Nitrate Reduction to Ammonium Fuels Anaerobic Ammonium Oxidation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 1197-1208.	4.6	46
34	An investigation into the impacts of water demand management and decentralized water recycling on excess sewer sediment deposition. <i>Journal of Environmental Management</i> , 2021, 279, 111788.	3.8	1
35	Transformation of phthalates and their metabolites in wastewater under different sewer conditions. <i>Water Research</i> , 2021, 190, 116754.	5.3	14
36	Inactivation kinetics of nitrite-oxidizing bacteria by free nitrous acid. <i>Science of the Total Environment</i> , 2021, 752, 141876.	3.9	23

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37	Formation and partitioning behaviour of perfluoroalkyl acids (PFAAs) in waste activated sludge during anaerobic digestion. <i>Water Research</i> , 2021, 189, 116583.	5.3	19
38	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.	6.5	16
39	Roles and opportunities for microbial anaerobic oxidation of methane in natural and engineered systems. <i>Energy and Environmental Science</i> , 2021, 14, 4803-4830.	15.6	40
40	Microbial Perchlorate Reduction Driven by Ethane and Propane. <i>Environmental Science &amp; Technology</i> , 2021, 55, 2006-2015.	4.6	14
41	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.	15.6	243
42	Robust Nitritation Sustained by Acid-Tolerant Ammonia-Oxidizing Bacteria. <i>Environmental Science &amp; Technology</i> , 2021, 55, 2048-2056.	4.6	51
43	Non-antibiotic pharmaceuticals promote the transmission of multidrug resistance plasmids through intra- and intergenera conjugation. <i>ISME Journal</i> , 2021, 15, 2493-2508.	4.4	76
44	Amphiphilic Perfluoropolyether Copolymers for the Effective Removal of Polyfluoroalkyl Substances from Aqueous Environments. <i>Macromolecules</i> , 2021, 54, 3447-3457.	2.2	18
45	Versatility of nitrite/nitrate-dependent anaerobic methane oxidation (n-DAMO): First demonstration with real wastewater. <i>Water Research</i> , 2021, 194, 116912.	5.3	32
46	Simultaneous nitrate and sulfate dependent anaerobic oxidation of methane linking carbon, nitrogen and sulfur cycles. <i>Water Research</i> , 2021, 194, 116928.	5.3	43
47	Acidic aerobic digestion of anaerobically-digested sludge enabled by a novel ammonia-oxidizing bacterium. <i>Water Research</i> , 2021, 194, 116962.	5.3	16
48	Rapid formation of granules coupling n-DAMO and anammox microorganisms to remove nitrogen. <i>Water Research</i> , 2021, 194, 116963.	5.3	45
49	An integrated strategy to enhance performance of anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 195, 116977.	5.3	41
50	Stoichiometric and kinetic characterization of an acid-tolerant ammonia oxidizer <i>Candidatus Nitrosoglobus</i> ™. <i>Water Research</i> , 2021, 196, 117026.	5.3	22
51	Insights into Nitrous Oxide Mitigation Strategies in Wastewater Treatment and Challenges for Wider Implementation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7208-7224.	4.6	57
52	Hydrogen-driven microbial biogas upgrading: Advances, challenges and solutions. <i>Water Research</i> , 2021, 197, 117120.	5.3	43
53	Feasibility of methane bioconversion to methanol by acid-tolerant ammonia-oxidizing bacteria. <i>Water Research</i> , 2021, 197, 117077.	5.3	12
54	Exploring the Spatial Impact of Green Infrastructure on Urban Drainage Resilience. <i>Water (Switzerland)</i> , 2021, 13, 1789.	1.2	11

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55	Simultaneous removal of antibiotic resistant bacteria, antibiotic resistance genes, and micropollutants by a modified photo-Fenton process. <i>Water Research</i> , 2021, 197, 117075.	5.3	80
56	Development of radio-frequency identification (RFID) sensors suitable for smart-monitoring applications in sewer systems. <i>Water Research</i> , 2021, 198, 117107.	5.3	18
57	Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO <sub>2</sub> reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119945.	10.8	77
58	Effects of pH, Temperature, Suspended Solids, and Biological Activity on Transformation of Illicit Drug and Pharmaceutical Biomarkers in Sewers. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8771-8782.	4.6	26
59	Roles of Oxygen in Methane-dependent Selenate Reduction in a Membrane Biofilm Reactor: Stimulation or Suppression. <i>Water Research</i> , 2021, 198, 117150.	5.3	14
60	Novel Multiplexed Amplicon-Based Sequencing to Quantify SARS-CoV-2 RNA from Wastewater. <i>Environmental Science and Technology Letters</i> , 2021, 8, 683-690.	3.9	15
61	Cross-feeding interactions in short chain gaseous alkane-driven perchlorate and selenate reduction. <i>Water Research</i> , 2021, 200, 117215.	5.3	7
62	Bioleaching of toxic metals from anaerobically digested sludge without external chemical addition. <i>Water Research</i> , 2021, 200, 117211.	5.3	10
63	Interactions of functional microorganisms and their contributions to methane bioconversion to short-chain fatty acids. <i>Water Research</i> , 2021, 199, 117184.	5.3	10
64	Unravelling adaptation of nitrite-oxidizing bacteria in mainstream PN/A process: Mechanisms and counter-strategies. <i>Water Research</i> , 2021, 200, 117239.	5.3	81
65	Biotrickling filter for the removal of volatile sulfur compounds from sewers: A review. <i>Chemosphere</i> , 2021, 277, 130333.	4.2	26
66	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.	5.3	43
67	Comparative life cycle assessment of sewer corrosion control by iron salts: Suitability analysis and strategy optimization. <i>Water Research</i> , 2021, 201, 117370.	5.3	10
68	Centralized iron-dosing into returned sludge brings multifaceted benefits to wastewater management. <i>Water Research</i> , 2021, 203, 117536.	5.3	16
69	Anaerobic oxidation of methane mediated by microbial extracellular respiration. <i>Environmental Microbiology Reports</i> , 2021, 13, 790-804.	1.0	20
70	Efficient nitrogen removal from mainstream wastewater through coupling Partial Nitritation, Anammox and Methane-dependent nitrite/nitrate reduction (PNAM). <i>Water Research</i> , 2021, 206, 117723.	5.3	37
71	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.	5.3	22
72	A novel granular sludge-based and highly corrosion-resistant bio-concrete in sewers. <i>Science of the Total Environment</i> , 2021, 791, 148270.	3.9	27

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73	Post-treatment options for anaerobically digested sludge: Current status and future prospect. <i>Water Research</i> , 2021, 205, 117665.	5.3	28
74	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.	3.2	11
75	Enhancing anaerobic digestion using free nitrous acid: Identifying the optimal pre-treatment condition in continuous operation. <i>Water Research</i> , 2021, 205, 117694.	5.3	10
76	In-sewer stability of selected analgesics and their metabolites. <i>Water Research</i> , 2021, 204, 117647.	5.3	9
77	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.	3.9	17
78	Stand-alone asymmetric hollow fiber gas-diffusion electrodes with distinguished bronze phases for high-efficiency CO <sub>2</sub> electrochemical reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120538.	10.8	35
79	In Situ Exploration of the Sulfidogenic Process at the Water-Sediment Interface in Sewers: Mechanism and Implications. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 415-423.	3.7	15
80	CFD Simulation of Dry Pressure Drop in a Cross-Flow Rotating Packed Bed. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10099.	1.3	2
81	Granular Sludge Coupling Nitrate/Nitrite Dependent Anaerobic Methane Oxidation with Anammox: from Proof-of-Concept to High Rate Nitrogen Removal. <i>Environmental Science &amp; Technology</i> , 2020, 54, 297-305.	4.6	54
82	Rapid and strong biocidal effect of ferrate on sulfidogenic and methanogenic sewer biofilms. <i>Water Research</i> , 2020, 169, 115208.	5.3	38
83	Nitrite admixed concrete for wastewater structures: Mechanical properties, leaching behavior and biofilm development. <i>Construction and Building Materials</i> , 2020, 233, 117341.	3.2	27
84	Water in China. <i>Water Research</i> , 2020, 169, 115256.	5.3	14
85	Both silver ions and silver nanoparticles facilitate the horizontal transfer of plasmid-mediated antibiotic resistance genes. <i>Water Research</i> , 2020, 169, 115229.	5.3	179
86	Effects of in-sewer dosing of iron-rich drinking water sludge on wastewater collection and treatment systems. <i>Water Research</i> , 2020, 171, 115396.	5.3	40
87	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.	5.3	34
88	Improving wastewater management using free nitrous acid (FNA). <i>Water Research</i> , 2020, 171, 115382.	5.3	111
89	Mitigating nitrous oxide emissions at a full-scale wastewater treatment plant. <i>Water Research</i> , 2020, 185, 116196.	5.3	48
90	Control sulfide and methane production in sewers based on free ammonia inactivation. <i>Environment International</i> , 2020, 143, 105928.	4.8	33

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91	Revealing the variations in physicochemical, morphological, fractal, and rheological properties of digestate during the mesophilic anaerobic digestion of iron-rich waste activated sludge. <i>Chemosphere</i> , 2020, 254, 126811.	4.2	2
92	Critical Factors Facilitating <i>Candidatus</i> Nitrotoga To Be Prevalent Nitrite-Oxidizing Bacteria in Activated Sludge. <i>Environmental Science &amp; Technology</i> , 2020, 54, 15414-15423.	4.6	43
93	Structural Changes in Cell-Wall and Cell-Membrane Organic Materials Following Exposure to Free Nitrous Acid. <i>Environmental Science &amp; Technology</i> , 2020, 54, 10301-10312.	4.6	21
94	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.	5.3	18
95	Biogas-driven complete nitrogen removal from wastewater generated in side-stream partial nitrification. <i>Science of the Total Environment</i> , 2020, 745, 141153.	3.9	16
96	Effects of aging of ferric-based drinking water sludge on its reactivity for sulfide and phosphate removal. <i>Water Research</i> , 2020, 184, 116179.	5.3	15
97	Enhancing methane oxidation in a bioelectrochemical membrane reactor using a soluble electron mediator. <i>Biotechnology for Biofuels</i> , 2020, 13, 173.	6.2	20
98	Transformation of Illicit Drugs and Pharmaceuticals in Sewer Sediments. <i>Environmental Science &amp; Technology</i> , 2020, 54, 13056-13065.	4.6	22
99	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.	5.3	112
100	Adaptation of nitrifying community in activated sludge to free ammonia inhibition and inactivation. <i>Science of the Total Environment</i> , 2020, 728, 138713.	3.9	58
101	Non-antibiotic pharmaceuticals enhance the transmission of exogenous antibiotic resistance genes through bacterial transformation. <i>ISME Journal</i> , 2020, 14, 2179-2196.	4.4	133
102	Assessing the removal of organic micropollutants from wastewater by discharging drinking water sludge to sewers. <i>Water Research</i> , 2020, 181, 115945.	5.3	22
103	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.	3.7	14
104	Simultaneous Removal of Dissolved Methane and Nitrogen from Synthetic Mainstream Anaerobic Effluent. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7629-7638.	4.6	46
105	Microbial selenate reduction in membrane biofilm reactors using ethane and propane as electron donors. <i>Water Research</i> , 2020, 183, 116008.	5.3	12
106	Unravelling kinetic and microbial responses of enriched nitrifying sludge under long-term exposure of cephalixin and sulfadiazine. <i>Water Research</i> , 2020, 173, 115592.	5.3	33
107	Temperature-Tolerated Mainstream Nitrogen Removal by Anammox and Nitrite/Nitrate-Dependent Anaerobic Methane Oxidation in a Membrane Biofilm Reactor. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3012-3021.	4.6	56
108	SewerSedFoam: A Model for Free Surface Flow, Sediment Transport, and Deposited Bed Morphology in Sewers. <i>Water (Switzerland)</i> , 2020, 12, 270.	1.2	4

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109	Model-based investigation of membrane biofilm reactors coupling anammox with nitrite/nitrate-dependent anaerobic methane oxidation. <i>Environment International</i> , 2020, 137, 105501.	4.8	29
110	Full-scale investigation of ferrous dosing in sewers and a wastewater treatment plant for multiple benefits. <i>Chemosphere</i> , 2020, 250, 126221.	4.2	30
111	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.	0.8	11
112	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.	6.6	19
113	Recovery of in-sewer dosed iron from digested sludge at downstream treatment plants and its reuse potential. <i>Water Research</i> , 2020, 174, 115627.	5.3	35
114	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.	3.9	75
115	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.	5.3	32
116	Decreasing microbially influenced metal corrosion using free nitrous acid in a simulated water injection system. <i>Water Research</i> , 2020, 172, 115470.	5.3	17
117	Increased Resistance of Nitrite-Admixed Concrete to Microbially Induced Corrosion in Real Sewers. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2323-2333.	4.6	33
118	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.	6.6	28
119	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.	3.9	17
120	Free ammonia shock treatment eliminates nitrite-oxidizing bacterial activity for mainstream biofilm nitrification process. <i>Chemical Engineering Journal</i> , 2020, 393, 124682.	6.6	37
121	Dewaterability enhancement and sulfide mitigation of CEPT sludge by electrochemical pretreatment. <i>Water Research</i> , 2020, 176, 115727.	5.3	12
122	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. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 21670-21681.	4.0	69
123	Advanced Wastewater Treatment and Mathematical Modeling. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, 02020002.	0.7	0
124	Rebar corrosion and its interaction with concrete degradation in reinforced concrete sewers. <i>Water Research</i> , 2020, 182, 115961.	5.3	25
125	Anaerobic methane oxidation coupled to manganese reduction by members of the <i>Methanoperedenaceae</i> . <i>ISME Journal</i> , 2020, 14, 1030-1041.	4.4	203
126	Achieving mainstream nitrogen removal via the nitrite pathway from real municipal wastewater using intermittent ultrasonic treatment. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 406-411.	3.8	35



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127	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.	5.3	17
128	Effects of ultrasonic treatment on the ammonia-oxidizing bacterial (AOB) growth kinetics. <i>Science of the Total Environment</i> , 2019, 690, 629-635.	3.9	30
129	Nitrite oxidizing bacteria (NOB) contained in influent deteriorate mainstream NOB suppression by sidestream inactivation. <i>Water Research</i> , 2019, 162, 331-338.	5.3	68
130	Microbial Methane Conversion to Short-Chain Fatty Acids Using Various Electron Acceptors in Membrane Biofilm Reactors. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12846-12855.	4.6	22
131	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.	3.7	22
132	High performance nitrogen removal through integrating denitrifying anaerobic methane oxidation and Anammox: from enrichment to application. <i>Environment International</i> , 2019, 132, 105107.	4.8	51
133	Full-scale investigation of in-situ iron and alkalinity generation for efficient sulfide control. <i>Water Research</i> , 2019, 167, 115032.	5.3	19
134	High-level nitrogen removal by simultaneous partial nitrification, anammox and nitrite/nitrate-dependent anaerobic methane oxidation. <i>Water Research</i> , 2019, 166, 115057.	5.3	80
135	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.	5.3	27
136	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.	4.8	46
137	Applications of high-gravity technologies in gas purifications: A review. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1361-1373.	1.7	42
138	Microbial chromate reduction coupled with anaerobic oxidation of methane in a membrane biofilm reactor. <i>Environment International</i> , 2019, 130, 104926.	4.8	35
139	The rapid chemically induced corrosion of concrete sewers at high H <sub>2</sub> S concentration. <i>Water Research</i> , 2019, 162, 95-104.	5.3	55
140	Acetate Production from Anaerobic Oxidation of Methane via Intracellular Storage Compounds. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7371-7379.	4.6	48
141	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.	4.8	171
142	Removal of Pharmaceuticals and Illicit Drugs from Wastewater Due to Ferric Dosing in Sewers. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6245-6254.	4.6	27
143	Biochar-Mediated Anaerobic Oxidation of Methane. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6660-6668.	4.6	92
144	Sweating the assets – The role of instrumentation, control and automation in urban water systems. <i>Water Research</i> , 2019, 155, 381-402.	5.3	76

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145	Experimental Investigation and Modeling of the Transformation of Illicit Drugs in a Pilot-Scale Sewer System. <i>Environmental Science &amp; Technology</i> , 2019, 53, 4556-4565.	4.6	25
146	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.	3.9	13
147	Cometabolic biodegradation of cephalexin by enriched nitrifying sludge: Process characteristics, gene expression and product biotoxicity. <i>Science of the Total Environment</i> , 2019, 672, 275-282.	3.9	38
148	Development of microbially influenced corrosion on carbon steel in a simulated water injection system. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1826-1836.	0.8	7
149	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.	5.3	34
150	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.	3.9	32
151	The development and application of improved solids modelling to enable resilient urban sewer networks. <i>Journal of Environmental Management</i> , 2019, 240, 219-230.	3.8	19
152	Application of iron-crosslinked sodium alginate for efficient sulfide control and reduction of oilfield produced water. <i>Water Research</i> , 2019, 154, 12-20.	5.3	13
153	Corrosion of reinforcing steel in concrete sewers. <i>Science of the Total Environment</i> , 2019, 649, 739-748.	3.9	35
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