

Zhiguo Yuan

List of Publications by Year in descending order

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485
papers

34,593
citations

1994

101
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6654

156
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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. IEEE Transactions on Industrial Informatics, 2022, 18, 571-581.	11.3	11
2	Insights of metallic nanoparticles and ions in accelerating the bacterial uptake of antibiotic resistance genes. Journal of Hazardous Materials, 2022, 421, 126728.	12.4	38
3	Corrosion mitigation by nitrite spray on corroded concrete in a real sewer system. Science of the Total Environment, 2022, 806, 151328.	8.0	10
4	Evaluation of continuous and intermittent trickling strategies for the removal of hydrogen sulfide in a biotrickling filter. Chemosphere, 2022, 291, 132723.	8.2	10
5	Copper stimulation on methane-supported perchlorate reduction in a membrane biofilm reactor. Journal of Hazardous Materials, 2022, 425, 127917.	12.4	6
6	Swift hydraulic models for real-time control applications in sewer networks. Water Research, 2022, 213, 118141.	11.3	14
7	Roles of reactive oxygen species in antibiotic resistant bacteria inactivation and micropollutant degradation in Fenton and photo-Fenton processes. Journal of Hazardous Materials, 2022, 430, 128408.	12.4	49
8	An Integrated First Principal and Deep Learning Approach for Modeling Nitrous Oxide Emissions from Wastewater Treatment Plants. Environmental Science & Technology, 2022, 56, 2816-2826.	10.0	23
9	Gravity settling and centrifugation increase the acid buffer capacity of activated sludge. Science of the Total Environment, 2022, 820, 153231.	8.0	3
10	A Genome-Scale Metabolic Model of Methanoperedens nitroreducens: Assessing Bioenergetics and Thermodynamic Feasibility. Metabolites, 2022, 12, 314.	2.9	4
11	Reactive nitrogen species from free nitrous acid (FNA) cause cell lysis. Water Research, 2022, 217, 118401.	11.3	13
12	Modelling of methane production and emissions. , 2022, , 197-212.		0
13	Modelling N2O production and emissions. , 2022, , 167-196.		0
14	Formation and fate of perfluoroalkyl acids (PFAAs) in a laboratory-scale urban wastewater system. Water Research, 2022, 216, 118295.	11.3	7
15	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
16	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
17	Regulating the reaction zone of electrochemical CO2 reduction on gas-diffusion electrodes by distinctive hydrophilic-hydrophobic catalyst layers. Applied Catalysis B: Environmental, 2022, 310, 121362.	20.2	21
18	Response of the Anaerobic Methanotrophic Archaeon Candidatus "Methanoperedens nitroreducens" to the Long-Term Ferrihydrite Amendment. Frontiers in Microbiology, 2022, 13, 799859.	3.5	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.	11.3	10
20	Re-configuring mainstream anammox. <i>Chemical Engineering Journal</i> , 2022, 445, 136817.	12.7	6
21	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
22	Sewerage surveillance tracking characteristics of human antibiotic emission in sewage. <i>Journal of Cleaner Production</i> , 2022, 364, 132479.	9.3	8
23	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
24	A 20-Year Journey of Partial Nitritation and Anammox (PN/A): from Sidestream toward Mainstream. <i>Environmental Science & Technology</i> , 2022, 56, 7522-7531.	10.0	106
25	Polyhydroxyalkanoate-driven current generation via acetate by an anaerobic methanotrophic consortium. <i>Water Research</i> , 2022, 221, 118743.	11.3	10
26	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
27	Fate characteristics, exposure risk, and control strategy of typical antibiotics in Chinese sewerage system: A review. <i>Environment International</i> , 2022, 167, 107396.	10.0	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.	12.4	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.	11.3	19
30	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
31	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
32	Recovery of Nitrous Oxide from Wastewater Treatment: Current Status and Perspectives. <i>ACS ES&T Water</i> , 2021, 1, 240-250.	4.6	16
33	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
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.	7.8	1
35	Transformation of phthalates and their metabolites in wastewater under different sewer conditions. <i>Water Research</i> , 2021, 190, 116754.	11.3	14
36	Inactivation kinetics of nitrite-oxidizing bacteria by free nitrous acid. <i>Science of the Total Environment</i> , 2021, 752, 141876.	8.0	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.	11.3	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.	12.4	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.	30.8	40
40	Microbial Perchlorate Reduction Driven by Ethane and Propane. <i>Environmental Science & Technology</i> , 2021, 55, 2006-2015.	10.0	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.	30.8	243
42	Robust Nitrification Sustained by Acid-Tolerant Ammonia-Oxidizing Bacteria. <i>Environmental Science & Technology</i> , 2021, 55, 2048-2056.	10.0	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.	9.8	76
44	Amphiphilic Perfluoropolyether Copolymers for the Effective Removal of Polyfluoroalkyl Substances from Aqueous Environments. <i>Macromolecules</i> , 2021, 54, 3447-3457.	4.8	18
45	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
46	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
47	Acidic aerobic digestion of anaerobically-digested sludge enabled by a novel ammonia-oxidizing bacterium. <i>Water Research</i> , 2021, 194, 116962.	11.3	16
48	Rapid formation of granules coupling n-DAMO and anammox microorganisms to remove nitrogen. <i>Water Research</i> , 2021, 194, 116963.	11.3	45
49	An integrated strategy to enhance performance of anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 195, 116977.	11.3	41
50	Stoichiometric and kinetic characterization of an acid-tolerant ammonia oxidizer <i>Candidatus Nitrosoglobus</i> ™. <i>Water Research</i> , 2021, 196, 117026.	11.3	22
51	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
52	Hydrogen-driven microbial biogas upgrading: Advances, challenges and solutions. <i>Water Research</i> , 2021, 197, 117120.	11.3	43
53	Feasibility of methane bioconversion to methanol by acid-tolerant ammonia-oxidizing bacteria. <i>Water Research</i> , 2021, 197, 117077.	11.3	12
54	Exploring the Spatial Impact of Green Infrastructure on Urban Drainage Resilience. <i>Water (Switzerland)</i> , 2021, 13, 1789.	2.7	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.	11.3	80
56	Development of radio-frequency identification (RFID) sensors suitable for smart-monitoring applications in sewer systems. <i>Water Research</i> , 2021, 198, 117107.	11.3	18
57	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
58	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
59	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
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.	8.7	15
61	Cross-feeding interactions in short chain gaseous alkane-driven perchlorate and selenate reduction. <i>Water Research</i> , 2021, 200, 117215.	11.3	7
62	Bioleaching of toxic metals from anaerobically digested sludge without external chemical addition. <i>Water Research</i> , 2021, 200, 117211.	11.3	10
63	Interactions of functional microorganisms and their contributions to methane bioconversion to short-chain fatty acids. <i>Water Research</i> , 2021, 199, 117184.	11.3	10
64	Unravelling adaptation of nitrite-oxidizing bacteria in mainstream PN/A process: Mechanisms and counter-strategies. <i>Water Research</i> , 2021, 200, 117239.	11.3	81
65	Biotrickling filter for the removal of volatile sulfur compounds from sewers: A review. <i>Chemosphere</i> , 2021, 277, 130333.	8.2	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.	11.3	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.	11.3	10
68	Centralized iron-dosing into returned sludge brings multifaceted benefits to wastewater management. <i>Water Research</i> , 2021, 203, 117536.	11.3	16
69	Anaerobic oxidation of methane mediated by microbial extracellular respiration. <i>Environmental Microbiology Reports</i> , 2021, 13, 790-804.	2.4	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.	11.3	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.	11.3	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.	8.0	27

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73	Post-treatment options for anaerobically digested sludge: Current status and future prospect. Water Research, 2021, 205, 117665.	11.3	28
74	Synergistic effect on concrete corrosion control in sewer environment achieved by applying surface washing on calcium nitrite admixed concrete. Construction and Building Materials, 2021, 302, 124184.	7.2	11
75	Enhancing anaerobic digestion using free nitrous acid: Identifying the optimal pre-treatment condition in continuous operation. Water Research, 2021, 205, 117694.	11.3	10
76	In-sewer stability of selected analgesics and their metabolites. Water Research, 2021, 204, 117647.	11.3	9
77	The origin of waste activated sludge affects the enhancement of anaerobic digestion by free nitrous acid pre-treatment. Science of the Total Environment, 2021, 795, 148831.	8.0	17
78	Stand-alone asymmetric hollow fiber gas-diffusion electrodes with distinguished bronze phases for high-efficiency CO ₂ electrochemical reduction. Applied Catalysis B: Environmental, 2021, 298, 120538.	20.2	35
79	In Situ Exploration of the Sulfidogenic Process at the Water-Sediment Interface in Sewers: Mechanism and Implications. ACS ES&T Engineering, 2021, 1, 415-423.	7.6	15
80	CFD Simulation of Dry Pressure Drop in a Cross-Flow Rotating Packed Bed. Applied Sciences (Switzerland), 2021, 11, 10099.	2.5	2
81	Granular Sludge Coupling Nitrate/Nitrite Dependent Anaerobic Methane Oxidation with Anammox: from Proof-of-Concept to High Rate Nitrogen Removal. Environmental Science & Technology, 2020, 54, 297-305.	10.0	54
82	Rapid and strong biocidal effect of ferrate on sulfidogenic and methanogenic sewer biofilms. Water Research, 2020, 169, 115208.	11.3	38
83	Nitrite admixed concrete for wastewater structures: Mechanical properties, leaching behavior and biofilm development. Construction and Building Materials, 2020, 233, 117341.	7.2	27
84	Water in China. Water Research, 2020, 169, 115256.	11.3	14
85	Both silver ions and silver nanoparticles facilitate the horizontal transfer of plasmid-mediated antibiotic resistance genes. Water Research, 2020, 169, 115229.	11.3	179
86	Effects of in-sewer dosing of iron-rich drinking water sludge on wastewater collection and treatment systems. Water Research, 2020, 171, 115396.	11.3	40
87	Wastewater treatment technology selection under various influent conditions and effluent standards based on life cycle assessment. Resources, Conservation and Recycling, 2020, 154, 104562.	10.8	34
88	Improving wastewater management using free nitrous acid (FNA). Water Research, 2020, 171, 115382.	11.3	111
89	Mitigating nitrous oxide emissions at a full-scale wastewater treatment plant. Water Research, 2020, 185, 116196.	11.3	48
90	Control sulfide and methane production in sewers based on free ammonia inactivation. Environment International, 2020, 143, 105928.	10.0	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.	8.2	2
92	Critical Factors Facilitating <i>Candidatus</i> Nitrotoga To Be Prevalent Nitrite-Oxidizing Bacteria in Activated Sludge. <i>Environmental Science & Technology</i> , 2020, 54, 15414-15423.	10.0	43
93	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
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.	11.3	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.	8.0	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.	11.3	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 & Technology</i> , 2020, 54, 13056-13065.	10.0	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.	11.3	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.	8.0	58
101	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
102	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
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.	7.5	14
104	Simultaneous Removal of Dissolved Methane and Nitrogen from Synthetic Mainstream Anaerobic Effluent. <i>Environmental Science & Technology</i> , 2020, 54, 7629-7638.	10.0	46
105	Microbial selenate reduction in membrane biofilm reactors using ethane and propane as electron donors. <i>Water Research</i> , 2020, 183, 116008.	11.3	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.	11.3	33
107	Temperature-Tolerated Mainstream Nitrogen Removal by Anammox and Nitrite/Nitrate-Dependent Anaerobic Methane Oxidation in a Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2020, 54, 3012-3021.	10.0	56
108	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

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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.	10.0	29
110	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
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.	1.4	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.	12.7	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.	11.3	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.	8.0	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.	11.3	32
116	Decreasing microbially influenced metal corrosion using free nitrous acid in a simulated water injection system. <i>Water Research</i> , 2020, 172, 115470.	11.3	17
117	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
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.	12.7	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.	8.0	17
120	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
121	Dewaterability enhancement and sulfide mitigation of CEPT sludge by electrochemical pretreatment. <i>Water Research</i> , 2020, 176, 115727.	11.3	12
122	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
123	Advanced Wastewater Treatment and Mathematical Modeling. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, 02020002.	1.4	0
124	Rebar corrosion and its interaction with concrete degradation in reinforced concrete sewers. <i>Water Research</i> , 2020, 182, 115961.	11.3	25
125	Anaerobic methane oxidation coupled to manganese reduction by members of the <i>Methanoperedenaceae</i> . <i>ISME Journal</i> , 2020, 14, 1030-1041.	9.8	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.	8.2	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.	11.3	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.	8.0	30
129	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
130	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
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.	7.5	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.	10.0	51
133	Full-scale investigation of in-situ iron and alkalinity generation for efficient sulfide control. <i>Water Research</i> , 2019, 167, 115032.	11.3	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.	11.3	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.	11.3	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.	10.0	46
137	Applications of high-gravity technologies in gas purifications: A review. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1361-1373.	3.5	42
138	Microbial chromate reduction coupled with anaerobic oxidation of methane in a membrane biofilm reactor. <i>Environment International</i> , 2019, 130, 104926.	10.0	35
139	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
140	Acetate Production from Anaerobic Oxidation of Methane via Intracellular Storage Compounds. <i>Environmental Science & Technology</i> , 2019, 53, 7371-7379.	10.0	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.	10.0	171
142	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
143	Biochar-Mediated Anaerobic Oxidation of Methane. <i>Environmental Science & Technology</i> , 2019, 53, 6660-6668.	10.0	92
144	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

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145	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
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.	8.0	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.	8.0	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.	1.5	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.	11.3	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.	8.0	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.	7.8	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.	11.3	13
153	Corrosion of reinforcing steel in concrete sewers. <i>Science of the Total Environment</i> , 2019, 649, 739-748.	8.0	35
154	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
155	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
156	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
157	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
158	Systematic evaluation of biomarker stability in pilot scale sewer pipes. <i>Water Research</i> , 2019, 151, 447-455.	11.3	43
159	Growth kinetics of <i>Candidatus Methanoperedens nitroreducens</i> ™ enriched in a laboratory reactor. <i>Science of the Total Environment</i> , 2019, 659, 442-450.	8.0	48
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