

Qilin Wang

List of Publications by Year in descending order

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185
papers

11,170
citations

18482

62
h-index

37204

96
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186
all docs

186
docs citations

186
times ranked

6651
citing authors

#	ARTICLE	IF	CITATIONS
1	Microplastics in wastewater treatment plants: Detection, occurrence and removal. <i>Water Research</i> , 2019, 152, 21-37.	11.3	1,069
2	An overview of field-scale studies on remediation of soil contaminated with heavy metals and metalloids: Technical progress over the last decade. <i>Water Research</i> , 2018, 147, 440-460.	11.3	323
3	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
4	Reduction of Cr(VI) in simulated groundwater by FeS-coated iron magnetic nanoparticles. <i>Science of the Total Environment</i> , 2017, 595, 743-751.	8.0	220
5	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
6	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
7	The underlying mechanism of calcium peroxide pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2019, 164, 114934.	11.3	184
8	Free ammonia enhances dark fermentative hydrogen production from waste activated sludge. <i>Water Research</i> , 2018, 133, 272-281.	11.3	163
9	Unveiling the mechanisms of how cationic polyacrylamide affects short-chain fatty acids accumulation during long-term anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2019, 155, 142-151.	11.3	159
10	Understanding and mitigating the toxicity of cadmium to the anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2017, 124, 269-279.	11.3	157
11	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2018, 130, 281-290.	11.3	156
12	Triclocarban enhances short-chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2017, 127, 150-161.	11.3	150
13	Fe(II) catalyzing sodium percarbonate facilitates the dewaterability of waste activated sludge: Performance, mechanism, and implication. <i>Water Research</i> , 2020, 174, 115626.	11.3	150
14	Ozone disinfection of chlorine-resistant bacteria in drinking water. <i>Water Research</i> , 2019, 160, 339-349.	11.3	147
15	Preparation of a novel graphene oxide/Fe-Mn composite and its application for aqueous Hg(II) removal. <i>Journal of Hazardous Materials</i> , 2016, 316, 151-158.	12.4	144
16	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
17	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. <i>Water Research</i> , 2018, 145, 113-124.	11.3	137
18	Calcium peroxide promotes hydrogen production from dark fermentation of waste activated sludge. <i>Chemical Engineering Journal</i> , 2019, 355, 22-32.	12.7	137

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19	Aged refuse enhances anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2017, 123, 724-733.	11.3	136
20	Monitoring antibiotic resistance genes in wastewater treatment: Current strategies and future challenges. <i>Science of the Total Environment</i> , 2021, 783, 146964.	8.0	136
21	Denitrifying sulfide removal process on high-salinity wastewaters in the presence of <i>Halomonas</i> sp.. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1421-1426.	3.6	132
22	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
23	Microplastics contamination in different trophic state lakes along the middle and lower reaches of Yangtze River Basin. <i>Environmental Pollution</i> , 2019, 254, 112951.	7.5	123
24	Free ammonia pre-treatment of secondary sludge significantly increases anaerobic methane production. <i>Water Research</i> , 2017, 118, 12-19.	11.3	119
25	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
26	Experimental evaluation of decrease in bacterial activity due to cell death and activity decay in activated sludge. <i>Water Research</i> , 2009, 43, 3604-3612.	11.3	112
27	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
28	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
29	Understanding the mechanisms of how poly aluminium chloride inhibits short-chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Chemical Engineering Journal</i> , 2018, 334, 1351-1360.	12.7	99
30	Understanding the fate and impact of capsaicin in anaerobic co-digestion of food waste and waste activated sludge. <i>Water Research</i> , 2021, 188, 116539.	11.3	99
31	Mechanistic insights into the effect of poly ferric sulfate on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 189, 116645.	11.3	95
32	Electrochemical activation of peroxides for treatment of contaminated water with landfill leachate: Efficacy, toxicity and biodegradability evaluation. <i>Chemosphere</i> , 2021, 279, 130610.	8.2	95
33	Improving secondary sludge biodegradability using free nitrous acid treatment. <i>Bioresource Technology</i> , 2012, 116, 92-98.	9.6	93
34	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
35	Enhanced short-chain fatty acids production from waste activated sludge by sophorolipid: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019, 284, 456-465.	9.6	91
36	Effect evaluation of microplastics on activated sludge nitrification and denitrification. <i>Science of the Total Environment</i> , 2020, 707, 135953.	8.0	91

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37	Towards hydrogen production from waste activated sludge: Principles, challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110283.	16.4	86
38	Enhanced short-chain fatty acids production from waste activated sludge by combining calcium peroxide with free ammonia pretreatment. <i>Bioresource Technology</i> , 2018, 262, 114-123.	9.6	85
39	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
40	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
41	Free Ammonia-Based Pretreatment Promotes Short-Chain Fatty Acid Production from Waste Activated Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9120-9129.	6.7	79
42	Feasibility of enhancing short-chain fatty acids production from sludge anaerobic fermentation at free nitrous acid pretreatment: Role and significance of Tea saponin. <i>Bioresource Technology</i> , 2018, 254, 194-202.	9.6	79
43	Zero valent iron enhances methane production from primary sludge in anaerobic digestion. <i>Chemical Engineering Journal</i> , 2018, 351, 1159-1165.	12.7	78
44	Improved methane production from waste activated sludge by combining free ammonia with heat pretreatment: Performance, mechanisms and applications. <i>Bioresource Technology</i> , 2018, 268, 230-236.	9.6	77
45	Biosorption of Pb (II) from aqueous solution by extracellular polymeric substances extracted from <i>Klebsiella</i> sp. J1: Adsorption behavior and mechanism assessment. <i>Scientific Reports</i> , 2016, 6, 31575.	3.3	75
46	Interaction between perfluorooctanoic acid and aerobic granular sludge. <i>Water Research</i> , 2020, 169, 115249.	11.3	75
47	A free nitrous acid (FNA)-based technology for reducing sludge production. <i>Water Research</i> , 2013, 47, 3663-3672.	11.3	74
48	AHL-mediated quorum sensing regulates the variations of microbial community and sludge properties of aerobic granular sludge under low organic loading. <i>Environment International</i> , 2019, 130, 104946.	10.0	74
49	Clarifying the Role of Free Ammonia in the Production of Short-Chain Fatty Acids from Waste Activated Sludge Anaerobic Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14104-14113.	6.7	73
50	Enhanced dewaterability of anaerobically digested sludge by in-situ free nitrous acid treatment. <i>Water Research</i> , 2020, 169, 115264.	11.3	73
51	Improving dewaterability of anaerobically digested sludge by combination of persulfate and zero valent iron. <i>Chemical Engineering Journal</i> , 2016, 295, 436-442.	12.7	72
52	Enhanced Short-Chain Fatty Acids from Waste Activated Sludge by Heat CaO_{2} Advanced Thermal Hydrolysis Pretreatment: Parameter Optimization, Mechanisms, and Implications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3544-3555.	6.7	71
53	Free ammonia-based pretreatment enhances phosphorus release and recovery from waste activated sludge. <i>Chemosphere</i> , 2018, 213, 276-284.	8.2	70
54	Feasibility of enhancing short-chain fatty acids production from waste activated sludge after free ammonia pretreatment: Role and significance of rhamnolipid. <i>Bioresource Technology</i> , 2018, 267, 141-148.	9.6	70

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55	Activation of nitrite by freezing process for anaerobic digestion enhancement of waste activated sludge: Performance and mechanisms. <i>Chemical Engineering Journal</i> , 2020, 387, 124147.	12.7	70
56	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
57	Thermal-alkaline pretreatment of polyacrylamide flocculated waste activated sludge: Process optimization and effects on anaerobic digestion and polyacrylamide degradation. <i>Bioresource Technology</i> , 2019, 281, 158-167.	9.6	68
58	Semi-continuous anaerobic digestion of secondary sludge with free ammonia pretreatment: Focusing on volatile solids destruction, dewaterability, pathogen removal and its implications. <i>Water Research</i> , 2021, 202, 117481.	11.3	68
59	Discrepant gene functional potential and cross-feedings of anammox bacteria <i>Ca. Jettenia caeni</i> and <i>Ca. Brocadia sinica</i> in response to acetate. <i>Water Research</i> , 2019, 165, 114974.	11.3	67
60	Role of extracellular polymeric substances in improvement of sludge dewaterability through peroxidation. <i>Bioresource Technology</i> , 2015, 192, 817-820.	9.6	65
61	Heat pretreatment assists free ammonia to enhance hydrogen production from waste activated sludge. <i>Bioresource Technology</i> , 2019, 283, 316-325.	9.6	65
62	Application of pulse electric field pretreatment for enhancing lipid extraction from <i>Chlorella pyrenoidosa</i> grown in wastewater. <i>Renewable Energy</i> , 2019, 133, 233-239.	8.9	64
63	Direct Cr (VI) bio-reduction with organics as electron donor by anaerobic sludge. <i>Chemical Engineering Journal</i> , 2017, 309, 330-338.	12.7	63
64	Digestion liquid based alkaline pretreatment of waste activated sludge promotes methane production from anaerobic digestion. <i>Water Research</i> , 2021, 199, 117198.	11.3	63
65	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
66	Immobilization of heavy metals in electroplating sludge by biochar and iron sulfide. <i>Environmental Science and Pollution Research</i> , 2016, 23, 14472-14488.	5.3	61
67	Ultrasonic waste activated sludge disintegration for recovering multiple nutrients for biofuel production. <i>Water Research</i> , 2016, 93, 56-64.	11.3	60
68	A Roadmap for Achieving Energy-Positive Sewage Treatment Based on Sludge Treatment Using Free Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9630-9633.	6.7	59
69	Microbial degradation of N,N-dimethylformamide by <i>Paracoccus</i> sp. strain DMF-3 from activated sludge. <i>Chemical Engineering Journal</i> , 2018, 343, 324-330.	12.7	59
70	Synthesis of Core-Shell Magnetic Nanocomposite Fe ₃ O ₄ @ Microbial Extracellular Polymeric Substances for Simultaneous Redox Sorption and Recovery of Silver Ions as Silver Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 749-756.	6.7	56
71	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
72	Full-scale evaluation of aerobic/extended-idle regime inducing biological phosphorus removal and its integration with intermittent sand filter to treat domestic sewage discharged from highway rest area. <i>Biochemical Engineering Journal</i> , 2016, 113, 114-122.	3.6	55

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73	Free ammonia pretreatment improves anaerobic methane generation from algae. <i>Water Research</i> , 2019, 162, 269-275.	11.3	54
74	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
75	Enhanced methane production from waste activated sludge by combining calcium peroxide with ultrasonic: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019, 279, 108-116.	9.6	52
76	Free nitrous acid breaks down extracellular polymeric substances in waste activated sludge. <i>RSC Advances</i> , 2015, 5, 43312-43318.	3.6	51
77	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
78	Evaluating death and activity decay of Anammox bacteria during anaerobic and aerobic starvation. <i>Chemosphere</i> , 2018, 201, 25-31.	8.2	51
79	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
80	Do Microplastics Affect Biological Wastewater Treatment Performance? Implications from Bacterial Activity Experiments. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 20097-20101.	6.7	51
81	Enhancement of productivity of <i>Chlorella pyrenoidosa</i> lipids for biodiesel using co-culture with ammonia-oxidizing bacteria in municipal wastewater. <i>Renewable Energy</i> , 2020, 151, 598-603.	8.9	50
82	Zero Valent Iron Significantly Enhances Methane Production from Waste Activated Sludge by Improving Biochemical Methane Potential Rather Than Hydrolysis Rate. <i>Scientific Reports</i> , 2015, 5, 8263.	3.3	49
83	Effect of acetate to glycerol ratio on enhanced biological phosphorus removal. <i>Chemosphere</i> , 2018, 196, 78-86.	8.2	47
84	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
85	Freezing in the presence of nitrite pretreatment enhances hydrogen production from dark fermentation of waste activated sludge. <i>Journal of Cleaner Production</i> , 2020, 248, 119305.	9.3	45
86	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
87	Free ammonia-based sludge treatment reduces sludge production in the wastewater treatment process. <i>Chemosphere</i> , 2018, 205, 484-492.	8.2	44
88	Enhancement of short-chain fatty acids production from microalgae by potassium ferrate addition: Feasibility, mechanisms and implications. <i>Bioresource Technology</i> , 2020, 318, 124266.	9.6	44
89	Advancements in detection and removal of antibiotic resistance genes in sludge digestion: A state-of-art review. <i>Bioresource Technology</i> , 2022, 344, 126197.	9.6	40
90	Persulfate and zero valent iron combined conditioning as a sustainable technique for enhancing dewaterability of aerobically digested sludge. <i>Chemosphere</i> , 2019, 232, 45-53.	8.2	39

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91	Enhanced dark fermentative hydrogen production from waste activated sludge by combining potassium ferrate with alkaline pretreatment. <i>Science of the Total Environment</i> , 2020, 707, 136105.	8.0	39
92	Efficient harvesting of <i>Chlorella pyrenoidosa</i> and <i>Scenedesmus obliquus</i> cultivated in urban sewage by magnetic flocculation using nano-Fe ₃ O ₄ coated with polyethyleneimine. <i>Bioresource Technology</i> , 2019, 290, 121771.	9.6	38
93	Optimization of microwave assisted lipid extraction from microalga <i>Scenedesmus obliquus</i> grown on municipal wastewater. <i>Journal of Cleaner Production</i> , 2019, 221, 502-508.	9.3	38
94	Nonlinear pattern and algal dual-impact in N ₂ O emission with increasing trophic levels in shallow lakes. <i>Water Research</i> , 2021, 203, 117489.	11.3	38
95	Aggregation of carboxyl-modified polystyrene nanoplastics in water with aluminum chloride: Structural characterization and theoretical calculation. <i>Water Research</i> , 2022, 208, 117884.	11.3	36
96	Revealing the Underlying Mechanisms of How Initial pH Affects Waste Activated Sludge Solubilization and Dewaterability in Freezing and Thawing Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15822-15831.	6.7	35
97	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
98	Free Ammonia Pretreatment To Improve Bio-hydrogen Production from Anaerobic Dark Fermentation of Microalgae. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1642-1647.	6.7	34
99	Microplastics deteriorate the removal efficiency of antibiotic resistance genes during aerobic sludge digestion. <i>Science of the Total Environment</i> , 2021, 798, 149344.	8.0	34
100	Evaluating sludge minimization caused by predation and viral infection based on the extended activated sludge model No. 2d. <i>Water Research</i> , 2011, 45, 5130-5140.	11.3	33
101	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
102	Combined Effect of Free Nitrous Acid Pretreatment and Sodium Dodecylbenzene Sulfonate on Short-Chain Fatty Acid Production from Waste Activated Sludge. <i>Scientific Reports</i> , 2016, 6, 21622.	3.3	31
103	Microwave pretreatment of polyacrylamide flocculated waste activated sludge: Effect on anaerobic digestion and polyacrylamide degradation. <i>Bioresource Technology</i> , 2019, 290, 121776.	9.6	31
104	Anaerobic microbial manganese oxidation and reduction: A critical review. <i>Science of the Total Environment</i> , 2022, 822, 153513.	8.0	31
105	Photocatalytic H ₂ generation from aqueous ammonia solution using TiO ₂ nanowires-intercalated reduced graphene oxide composite membrane under low power UV light. <i>Emergent Materials</i> , 2019, 2, 303-311.	5.7	30
106	Life-cycle cost analysis of a hybrid algae-based biological desalination “ low pressure reverse osmosis system. <i>Water Research</i> , 2021, 195, 116957.	11.3	30
107	Effect of sodium dodecylbenzene sulfonate on hydrogen production from dark fermentation of waste activated sludge. <i>Science of the Total Environment</i> , 2021, 799, 149383.	8.0	30
108	A novel free ammonia based pretreatment technology to enhance anaerobic methane production from primary sludge. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2245-2252.	3.3	29

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109	Enhanced hydrogen accumulation from waste activated sludge by combining ultrasonic and free nitrous acid pretreatment: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019, 285, 121363.	9.6	28
110	Eutrophication triggers the shift of nutrient absorption pathway of submerged macrophytes: Implications for the phytoremediation of eutrophic waters. <i>Journal of Environmental Management</i> , 2019, 239, 376-384.	7.8	28
111	The fate and impact of TCC in nitrifying cultures. <i>Water Research</i> , 2020, 178, 115851.	11.3	28
112	Factors governing microalgae harvesting efficiency by flocculation using cationic polymers. <i>Bioresource Technology</i> , 2021, 340, 125669.	9.6	28
113	Development of multiple-step soft-sensors using a Gaussian process model with application for fault prognosis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 157, 85-95.	3.5	27
114	Insights into the toxicity of troclocarban to anaerobic digestion: Sludge characteristics and methane production. <i>Journal of Hazardous Materials</i> , 2020, 385, 121615.	12.4	27
115	Experimental evaluation of decrease in the activities of polyphosphate/glycogen-accumulating organisms due to cell death and activity decay in activated sludge. <i>Biotechnology and Bioengineering</i> , 2010, 106, 399-407.	3.3	26
116	Free ammonia pretreatment enhances the removal of antibiotic resistance genes in anaerobic sludge digestion. <i>Chemosphere</i> , 2021, 279, 130910.	8.2	26
117	Combined zero valent iron and hydrogen peroxide conditioning significantly enhances the dewaterability of anaerobic digestate. <i>Journal of Environmental Sciences</i> , 2018, 67, 378-386.	6.1	25
118	Combined physical and chemical activation of sludge-based adsorbent enhances Cr(VI) removal from wastewater. <i>Journal of Cleaner Production</i> , 2019, 238, 117904.	9.3	25
119	Performance and Mechanism of Potassium Ferrate(VI) Enhancing Dark Fermentative Hydrogen Accumulation from Waste Activated Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8681-8691.	6.7	25
120	Triclosan degradation in sludge anaerobic fermentation and its impact on hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 421, 129948.	12.7	24
121	Recent developments in microbial degradation of polypropylene: Integrated approaches towards a sustainable environment. <i>Science of the Total Environment</i> , 2022, 826, 154056.	8.0	24
122	Towards energy positive wastewater treatment by sludge treatment using free nitrous acid. <i>Chemosphere</i> , 2016, 144, 1869-1873.	8.2	23
123	Fault prognosis of filamentous sludge bulking using an enhanced multi-output gaussian processes regression. <i>Control Engineering Practice</i> , 2017, 62, 46-54.	5.5	23
124	Mechanisms of free nitrous acid and freezing co-pretreatment enhancing short-chain fatty acids production from waste activated sludge anaerobic fermentation. <i>Chemosphere</i> , 2019, 230, 536-543.	8.2	23
125	In-depth research on percarbonate expediting zero-valent iron corrosion for conditioning anaerobically digested sludge. <i>Journal of Hazardous Materials</i> , 2021, 419, 126389.	12.4	23
126	A review on treatment of disinfection byproduct precursors by biological activated carbon process. <i>Chinese Chemical Letters</i> , 2022, 33, 4495-4504.	9.0	23

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127	Polyhydroxyalkanoates in waste activated sludge enhances anaerobic methane production through improving biochemical methane potential instead of hydrolysis rate. <i>Scientific Reports</i> , 2016, 6, 19713.	3.3	22
128	Enrichment and characteristics of ammonia-oxidizing archaea in wastewater treatment process. <i>Chemical Engineering Journal</i> , 2017, 323, 465-472.	12.7	22
129	Role of extracellular polymeric substances in anaerobic granular sludge: Assessing dewaterability during Fe(II)-peroxydisulfate conditioning and granulation processes. <i>Journal of Cleaner Production</i> , 2021, 286, 124968.	9.3	22
130	Enhancing methane production from waste activated sludge using a novel indigenous iron activated peroxidation pre-treatment process. <i>Bioresource Technology</i> , 2015, 182, 267-271.	9.6	21
131	Prediction of Filamentous Sludge Bulking using a State-based Gaussian Processes Regression Model. <i>Scientific Reports</i> , 2016, 6, 31303.	3.3	21
132	Free Ammonia Pretreatment Improves Degradation of Secondary Sludge During Aerobic Digestion. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1105-1111.	6.7	21
133	Effects of free nitrous acid and freezing co-pretreatment on sludge short-chain fatty acids production and dewaterability. <i>Science of the Total Environment</i> , 2019, 669, 600-607.	8.0	21
134	Norfloxacin-induced effect on enhanced biological phosphorus removal from wastewater after long-term exposure. <i>Journal of Hazardous Materials</i> , 2020, 392, 122336.	12.4	21
135	Statistical process monitoring with integration of data projection and one-class classification. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 149, 1-11.	3.5	20
136	Suspended particles potentially enhance nitrous oxide (N ₂ O) emissions in the oxic estuarine waters of eutrophic lakes: Field and experimental evidence. <i>Environmental Pollution</i> , 2019, 252, 1225-1234.	7.5	20
137	Free nitrous acid-based nitrifying sludge treatment in a two-sludge system obtains high polyhydroxyalkanoates accumulation and satisfied biological nutrients removal. <i>Bioresource Technology</i> , 2019, 284, 16-24.	9.6	20
138	Improving heavy metals removal, dewaterability and pathogen removal of waste activated sludge using enhanced chemical leaching. <i>Journal of Cleaner Production</i> , 2020, 271, 122512.	9.3	20
139	Rebooting kernel CCA method for nonlinear quality-relevant fault detection in process industries. <i>Chemical Engineering Research and Design</i> , 2021, 149, 619-630.	5.6	20
140	Solid-Embedded Microplastics from Sewage Sludge to Agricultural Soils: Detection, Occurrence, and Impacts. <i>ACS ES&T Water</i> , 2021, 1, 1322-1333.	4.6	20
141	Measuring the activities of higher organisms in activated sludge by means of mechanical shearing pretreatment and oxygen uptake rate. <i>Water Research</i> , 2010, 44, 3993-4001.	11.3	19
142	Simultaneous sorption and reduction of Cr(VI) in aquatic system by microbial extracellular polymeric substances from <i>Klebsiella</i> sp. J1. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3152-3159.	3.2	19
143	A comparative study on denitrifying sludge granulation with different electron donors: Sulfide, thiosulfate and organics. <i>Chemosphere</i> , 2017, 186, 322-330.	8.2	18
144	Nitrate addition improves hydrogen production from acidic fermentation of waste activated sludge. <i>Chemosphere</i> , 2019, 235, 814-824.	8.2	18

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145	Robust adaptive boosted canonical correlation analysis for quality-relevant process monitoring of wastewater treatment. <i>ISA Transactions</i> , 2021, 117, 210-220.	5.7	18
146	Simultaneous biological removal of phenol, sulfide, and nitrate using expanded granular sludge bed reactor. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 4211-4217.	3.6	17
147	Free ammonia pretreatment assists potassium ferrate to enhance the production of short-chain fatty acids from waste activated sludge: Performance, mechanisms and applications. <i>Journal of Cleaner Production</i> , 2021, 328, 129620.	9.3	16
148	Role of oxidants in enhancing dewaterability of anaerobically digested sludge through Fe (II) activated oxidation processes: hydrogen peroxide versus persulfate. <i>Scientific Reports</i> , 2016, 6, 24800.	3.3	15
149	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
150	Biological Nitrogen Removal through Nitritation Coupled with Thiosulfate-Driven Denitritation. <i>Scientific Reports</i> , 2016, 6, 27502.	3.3	14
151	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
152	Enhancing dewaterability of waste activated sludge by combined oxidative conditioning process with zero-valent iron and peroxymonosulfate. <i>Water Science and Technology</i> , 2017, 76, 2427-2433.	2.5	14
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