

Bing-Jie Ni

List of Publications by Year in descending order

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Version: 2024-02-01

400
papers

20,517
citations

8755

75
h-index

19749

117
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406
all docs

406
docs citations

406
times ranked

12189
citing authors

#	ARTICLE	IF	CITATIONS
1	Eco-designed electrocatalysts for water splitting: A path toward carbon neutrality. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 6288-6307.	7.1	15
2	Insights into the microbiomes for medium-chain carboxylic acids production from biowastes through chain elongation. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3787-3812.	12.8	19
3	Fabrication of CN75/NH ₂ -MIL-53(Fe) p-n heterojunction with wide spectral response for efficiently photocatalytic Cr(VI) reduction. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161994.	5.5	63
4	Corncob ash boosts fermentative hydrogen production from waste activated sludge. <i>Science of the Total Environment</i> , 2022, 807, 151064.	8.0	12
5	Sulfur-driven autotrophic denitrification of nitric oxide for efficient nitrous oxide recovery. <i>Biotechnology and Bioengineering</i> , 2022, 119, 257-267.	3.3	9
6	Three-dimensional biofilm electrode reactors (3D-BERs) for wastewater treatment. <i>Bioresource Technology</i> , 2022, 344, 126274.	9.6	19
7	Fast identification of fluorescent components in three-dimensional excitation-emission matrix fluorescence spectra via deep learning. <i>Chemical Engineering Journal</i> , 2022, 430, 132893.	12.7	42
8	Transforming waste activated sludge into medium chain fatty acids in continuous two-stage anaerobic fermentation: Demonstration at different pH levels. <i>Chemosphere</i> , 2022, 288, 132474.	8.2	18
9	Integrating mechanistic and deep learning models for accurately predicting the enrichment of polyhydroxyalkanoates accumulating bacteria in mixed microbial cultures. <i>Bioresource Technology</i> , 2022, 344, 126276.	9.6	9
10	Small molecule π -conjugated electron acceptor for highly enhanced photocatalytic nitrogen reduction of BiOBr. <i>Journal of Materials Science and Technology</i> , 2022, 109, 276-281.	10.7	18
11	Boosted selective catalytic nitrate reduction to ammonia on carbon/bismuth/bismuth oxide photocatalysts. <i>Journal of Cleaner Production</i> , 2022, 331, 129975.	9.3	21
12	Recycling spent water treatment adsorbents for efficient electrocatalytic water oxidation reaction. <i>Resources, Conservation and Recycling</i> , 2022, 178, 106037.	10.8	48
13	Unveiling the distinctive role of titanium dioxide nanoparticles in aerobic sludge digestion. <i>Science of the Total Environment</i> , 2022, 813, 151872.	8.0	3
14	Transition metal chalcogenides as emerging electrocatalysts for urea electrolysis. <i>Current Opinion in Electrochemistry</i> , 2022, 31, 100888.	4.8	18
15	Unlocking the electrocatalytic activity of natural chalcopyrite using mechanochemistry. <i>Journal of Energy Chemistry</i> , 2022, 68, 275-283.	12.9	22
16	The anammox coupled partial-denitrification process in an integrated granular sludge and fixed-biofilm reactor developed for mainstream wastewater treatment: Performance and community structure. <i>Water Research</i> , 2022, 210, 117964.	11.3	52
17	Calcium peroxide significantly enhances volatile solids destruction in aerobic sludge digestion through improving sludge biodegradability. <i>Bioresource Technology</i> , 2022, 346, 126655.	9.6	18
18	Insight into the generation and consumption mechanism of tightly bound and loosely bound extracellular polymeric substances by mathematical modeling. <i>Science of the Total Environment</i> , 2022, 811, 152359.	8.0	16

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19	Dual-anion etching induced in situ interfacial engineering for high-efficiency oxygen evolution. <i>Chemical Engineering Journal</i> , 2022, 431, 134304.	12.7	14
20	A two-stage degradation coupling photocatalysis to microalgae enhances the mineralization of enrofloxacin. <i>Chemosphere</i> , 2022, 293, 133523.	8.2	18
21	Zero valent iron greatly improves sludge destruction and nitrogen removal in aerobic sludge digestion. <i>Chemical Engineering Journal</i> , 2022, 433, 134459.	12.7	6
22	Sequestration of nitrous oxide for nutrient recovery and product formation. , 2022, , 155-177.		0
23	Recent advances in photocatalytic nitrogen fixation and beyond. <i>Nanoscale</i> , 2022, 14, 2990-2997.	5.6	55
24	Hybrid Water Electrolysis: A New Sustainable Avenue for Energy-Saving Hydrogen Production. , 2022, 1, 100002.		38
25	Perturbation of clopyralid on bio-denitrification and nitrite accumulation: Long-term performance and biological mechanism. <i>Environmental Science and Ecotechnology</i> , 2022, 9, 100144.	13.5	43
26	An Integrated First Principal and Deep Learning Approach for Modeling Nitrous Oxide Emissions from Wastewater Treatment Plants. <i>Environmental Science & Technology</i> , 2022, 56, 2816-2826.	10.0	23
27	Autotrophic denitrification of NO for effectively recovering N ₂ O through using thiosulfate as sole electron donor. <i>Bioresource Technology</i> , 2022, 347, 126681.	9.6	6
28	High-performance photocatalytic decomposition of PFOA by BiOX/TiO ₂ heterojunctions: Self-induced inner electric fields and band alignment. <i>Journal of Hazardous Materials</i> , 2022, 430, 128195.	12.4	43
29	Integrating electrodeposition with electrolysis for closed-loop resource utilization of battery industrial wastewater. <i>Green Chemistry</i> , 2022, 24, 3208-3217.	9.0	32
30	Performance and Mechanism of Fe ₃ O ₄ Improving Biotransformation of Waste Activated Sludge into Liquid High-Value Products. <i>Environmental Science & Technology</i> , 2022, 56, 3658-3668.	10.0	51
31	Modeling of sulfur-driven autotrophic denitrification coupled with Anammox process. <i>Bioresource Technology</i> , 2022, 349, 126887.	9.6	16
32	Highly Sensitive, Fast Response and Selective Glucose Detection Based on CuO/Nitrogen-doped Carbon Non-enzymatic Sensor. <i>Electroanalysis</i> , 2022, 34, 1725-1734.	2.9	5
33	Polyethylene terephthalate microplastic fibers increase the release of extracellular antibiotic resistance genes during sewage sludge anaerobic digestion. <i>Water Research</i> , 2022, 217, 118426.	11.3	29
34	Halophilic <i>Marteella</i> sp. AD-3 enhanced phenanthrene degradation in a bioaugmented activated sludge system through syntrophic interaction. <i>Water Research</i> , 2022, 218, 118432.	11.3	7
35	Modelling N ₂ O production and emissions. , 2022, , 167-196.		0
36	Calcium peroxide pre-treatment improved the anaerobic digestion of primary sludge and its co-digestion with waste activated sludge. <i>Science of the Total Environment</i> , 2022, 828, 154404.	8.0	9

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37	Medium-chain fatty acids production from carbohydrates-rich wastewater through two-stage yeast biofilm processes without external electron donor addition: Biofilm development and pH impact. <i>Science of the Total Environment</i> , 2022, 828, 154428.	8.0	10
38	Influences of granule properties on the performance of autotrophic nitrogen removal granular reactor: A model-based evaluation. <i>Bioresource Technology</i> , 2022, 356, 127307.	9.6	8
39	Migration behavior of impurities during the purification of waste graphite powders. <i>Journal of Environmental Management</i> , 2022, 315, 115150.	7.8	5
40	Sludge reduction and microbial community evolution of activated sludge induced by metabolic uncoupler o-chlorophenol in long-term anaerobic-oxic process. <i>Journal of Environmental Management</i> , 2022, 316, 115230.	7.8	5
41	A comprehensive analysis of evolution and underlying connections of water research themes in the 21st century. <i>Science of the Total Environment</i> , 2022, 835, 155411.	8.0	4
42	Different sizes of polystyrene microplastics induced distinct microbial responses of anaerobic granular sludge. <i>Water Research</i> , 2022, 220, 118607.	11.3	27
43	Plastic wastes derived carbon materials for green energy and sustainable environmental applications. , 2022, 1, 34-48.		17
44	Influences of longitudinal gradients on methane-driven membrane biofilm reactor for complete nitrogen removal: A model-based investigation. <i>Water Research</i> , 2022, 220, 118665.	11.3	9
45	Responses of anaerobic hydrogen-producing granules to acute microplastics exposure during biological hydrogen production from wastewater. <i>Water Research</i> , 2022, 220, 118680.	11.3	10
46	Microplastics aging in wastewater treatment plants: Focusing on physicochemical characteristics changes and corresponding environmental risks. <i>Water Research</i> , 2022, 221, 118780.	11.3	29
47	The changes of microplastics' behavior in adsorption and anaerobic digestion of waste activated sludge induced by hydrothermal pretreatment. <i>Water Research</i> , 2022, 221, 118744.	11.3	17
48	Microbial and physicochemical responses of anaerobic hydrogen-producing granular sludge to polyethylene micro(nano)plastics. <i>Water Research</i> , 2022, 221, 118745.	11.3	12
49	Algae-based alginate biomaterial: Production and applications. , 2022, , 37-66.		1
50	Emerging electrochemical techniques for identifying and removing micro/nanoplastics in urban waters. <i>Water Research</i> , 2022, 221, 118846.	11.3	23
51	Removal of microplastics and nanoplastics from urban waters: Separation and degradation. <i>Water Research</i> , 2022, 221, 118820.	11.3	34
52	Evaluating the role of biochar in mitigating the inhibition of polyethylene nanoplastics on anaerobic granular sludge. <i>Water Research</i> , 2022, 221, 118855.	11.3	10
53	Modeling nitrate/nitrite dependent anaerobic methane oxidation and Anammox process in a membrane granular sludge reactor. <i>Chemical Engineering Journal</i> , 2021, 403, 125822.	12.7	12
54	Medium chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Journal of Cleaner Production</i> , 2021, 279, 123482.	9.3	46

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55	Mechanisms of potassium permanganate pretreatment improving anaerobic fermentation performance of waste activated sludge. <i>Chemical Engineering Journal</i> , 2021, 406, 126797.	12.7	64
56	Towards hydrogen production from waste activated sludge: Principles, challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110283.	16.4	86
57	Cost-effective catalysts for renewable hydrogen production via electrochemical water splitting: Recent advances. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 27, 100398.	5.9	56
58	Optimizing light sources for selective growth of purple bacteria and efficient formation of value-added products. <i>Journal of Cleaner Production</i> , 2021, 280, 124493.	9.3	10
59	Denitrifying biofilm processes for wastewater treatment: developments and perspectives. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 40-67.	2.4	12
60	Modeling of completely autotrophic nitrogen removal process with salt and glycine betaine addition. <i>Chemosphere</i> , 2021, 264, 128474.	8.2	6
61	Emerging alternative for artificial ammonia synthesis through catalytic nitrate reduction. <i>Journal of Materials Science and Technology</i> , 2021, 77, 163-168.	10.7	66
62	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
63	Simultaneous adsorption and degradation of bisphenol A on magnetic illite clay composite: Eco-friendly preparation, characterizations, and catalytic mechanism. <i>Journal of Cleaner Production</i> , 2021, 287, 125068.	9.3	23
64	Spatial distribution, sources and risk assessment of perfluoroalkyl substances in surface soils of a representative densely urbanized and industrialized city of China. <i>Catena</i> , 2021, 198, 105059.	5.0	16
65	Ultralight biodegradable 3D-g-C ₃ N ₄ aerogel for advanced oxidation water treatment driven by oxygen delivery channels and triphase interfaces. <i>Journal of Cleaner Production</i> , 2021, 288, 125091.	9.3	40
66	Mechanisms of persulfate activation on biochar derived from two different sludges: Dominance of their intrinsic compositions. <i>Journal of Hazardous Materials</i> , 2021, 408, 124454.	12.4	38
67	The entering of polyethylene terephthalate microplastics into biological wastewater treatment system affects aerobic sludge digestion differently from their direct entering into sludge treatment system. <i>Water Research</i> , 2021, 190, 116731.	11.3	55
68	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
69	Partial inhibition of borohydride hydrolysis using porous activated carbon as an effective method to improve the electrocatalytic activity of the DBFC anode. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4401-4413.	4.9	13
70	Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. <i>Chemical Society Reviews</i> , 2021, 50, 10116-10211.	38.1	140
71	Revealing the Mechanism of Biochar Enhancing the Production of Medium Chain Fatty Acids from Waste Activated Sludge Alkaline Fermentation Liquor. <i>ACS ES&T Water</i> , 2021, 1, 1014-1024.	4.6	28
72	High carrier separation efficiency for a defective g-C ₃ N ₄ with polarization effect and defect engineering: mechanism, properties and prospects. <i>Catalysis Science and Technology</i> , 2021, 11, 5432-5447.	4.1	19

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73	Mechanism of surface and interface engineering under diverse dimensional combinations: the construction of efficient nanostructured MXene-based photocatalysts. <i>Catalysis Science and Technology</i> , 2021, 11, 5028-5049.	4.1	11
74	Synergistic recycling and conversion of spent Li-ion battery leachate into highly efficient oxygen evolution catalysts. <i>Green Chemistry</i> , 2021, 23, 6538-6547.	9.0	42
75	Facile preparation of hydrophilic In ₂ O ₃ nanospheres and rods with improved performances for photocatalytic degradation of PFOA. <i>Environmental Science: Nano</i> , 2021, 8, 1010-1018.	4.3	22
76	Improving Medium-Chain Fatty Acid Production from Anaerobic Fermentation of Waste Activated Sludge Using Free Ammonia. <i>ACS ES&T Engineering</i> , 2021, 1, 478-489.	7.6	33
77	Revisiting Microplastics in Landfill Leachate: Unnoticed Tiny Microplastics and Their Fate in Treatment Works. <i>Water Research</i> , 2021, 190, 116784.	11.3	106
78	Impacts of organics on the microbial ecology of wastewater anammox processes: Recent advances and meta-analysis. <i>Water Research</i> , 2021, 191, 116817.	11.3	108
79	Rhamnolipid pretreatment enhances methane production from two-phase anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 194, 116909.	11.3	47
80	The impact and fate of clarithromycin in anaerobic digestion of waste activated sludge for biogas production. <i>Environmental Research</i> , 2021, 195, 110792.	7.5	27
81	Mechanisms of CuO Nanoparticles at an Environmentally Relevant Level Enhancing Production of Hydrogen from Anaerobic Fermentation of Waste-Activated Sludge. <i>ACS ES&T Water</i> , 2021, 1, 1495-1502.	4.6	6
82	Determination of Instinct Components of Biomass on the Generation of Persistent Free Radicals (PFRs) as Critical Redox Sites in Pyrogenic Chars for Persulfate Activation. <i>Environmental Science & Technology</i> , 2021, 55, 7690-7701.	10.0	40
83	Integrated membrane bioreactors modelling: A review on new comprehensive modelling framework. <i>Bioresource Technology</i> , 2021, 329, 124828.	9.6	10
84	Emerging artificial nitrogen cycle processes through novel electrochemical and photochemical synthesis. <i>Materials Today</i> , 2021, 46, 212-233.	14.2	104
85	Coagulation removal and photocatalytic degradation of microplastics in urban waters. <i>Chemical Engineering Journal</i> , 2021, 416, 129123.	12.7	95
86	Tuning electronic property and surface reconstruction of amorphous iron borides via W-P co-doping for highly efficient oxygen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 288, 120037.	20.2	108
87	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
88	Improving nutrients removal and energy recovery from wastes using hydrochar. <i>Science of the Total Environment</i> , 2021, 783, 146980.	8.0	22
89	Different Pathways of Microplastics Entering the Sludge Treatment System Distinctively Affect Anaerobic Sludge Fermentation Processes. <i>Environmental Science & Technology</i> , 2021, 55, 11274-11283.	10.0	38
90	Aerobic sludge digestion is distinguishingly affected by the different entering pathways of zinc oxide nanoparticles. <i>Journal of Hazardous Materials</i> , 2021, 416, 125799.	12.4	10

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91	A facile oxygen vacancy and bandgap control of Bi(OH)SO ₄ ·H ₂ O for achieving enhanced photocatalytic remediation. <i>Journal of Environmental Management</i> , 2021, 294, 113046.	7.8	7
92	Enhancing methane production from algae anaerobic digestion using diatomite. <i>Journal of Cleaner Production</i> , 2021, 315, 128138.	9.3	12
93	A reusable, separation-free and biodegradable calcium alginate/g-C ₃ N ₄ microsphere for sustainable photocatalytic wastewater treatment. <i>Journal of Cleaner Production</i> , 2021, 314, 128033.	9.3	41
94	Understanding and regulating the impact of tetracycline to the anaerobic fermentation of waste activated sludge. <i>Journal of Cleaner Production</i> , 2021, 313, 127929.	9.3	23
95	A Green Synthesis of Ru Modified g-C ₃ N ₄ Nanosheets for Enhanced Photocatalytic Ammonia Synthesis. <i>Energy Material Advances</i> , 2021, 2021, .	11.0	36
96	Triclosan degradation in sludge anaerobic fermentation and its impact on hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 421, 129948.	12.7	24
97	Enhanced methane production from anaerobic digestion of waste activated sludge through preliminary pretreatment using calcium hypochlorite. <i>Journal of Environmental Management</i> , 2021, 295, 113346.	7.8	23
98	Upgrading biogas produced in anaerobic digestion: Biological removal and bioconversion of CO ₂ in biogas. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111448.	16.4	40
99	Coconut shell ash enhances short-chain fatty acids production from anaerobic algae fermentation. <i>Bioresource Technology</i> , 2021, 338, 125494.	9.6	23
100	Model predicted N ₂ O production from membrane-aerated biofilm reactor is greatly affected by biofilm property settings. <i>Chemosphere</i> , 2021, 281, 130861.	8.2	14
101	Unravelling the impacts of perfluorooctanoic acid on anaerobic sludge digestion process. <i>Science of the Total Environment</i> , 2021, 796, 149057.	8.0	18
102	Improving engineering characteristics of expansive soils using industry waste as a sustainable application for reuse of bagasse ash. <i>Transportation Geotechnics</i> , 2021, 31, 100637.	4.5	30
103	Insights into coconut shell incineration bottom ash mediated microbial hydrogen production from waste activated sludge. <i>Journal of Cleaner Production</i> , 2021, 322, 129157.	9.3	5
104	Modeling molecular structure and behavior of microbial extracellular polymeric substances through interacting-particle reaction dynamics. <i>Chemical Engineering Journal Advances</i> , 2021, 8, 100154.	5.2	6
105	Comprehensive investigation into in-situ chemical oxidation of ferrous iron/sodium percarbonate (Fe(II)/SPC) processing dredged sediments for positive feedback of solid-liquid separation. <i>Chemical Engineering Journal</i> , 2021, 425, 130467.	12.7	4
106	Alkaline pre-fermentation for anaerobic digestion of polyacrylamide flocculated sludge: Simultaneously enhancing methane production and polyacrylamide degradation. <i>Chemical Engineering Journal</i> , 2021, 425, 131407.	12.7	21
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	Exploring the feasibility of nitrous oxide reduction and polyhydroxyalkanoates production simultaneously by mixed microbial cultures. <i>Bioresource Technology</i> , 2021, 342, 126012.	9.6	7

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109	Zero-valent iron mediated biological wastewater and sludge treatment. <i>Chemical Engineering Journal</i> , 2021, 426, 130821.	12.7	30
110	Integrating high-efficiency oxygen evolution catalysts featuring accelerated surface reconstruction from waste printed circuit boards via a boriding recycling strategy. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120583.	20.2	31
111	Biological Reduction of Nitric Oxide for Efficient Recovery of Nitrous Oxide as an Energy Source. <i>Environmental Science & Technology</i> , 2021, 55, 1992-2005.	10.0	13
112	Modular design of an efficient heterostructured FeS ₂ /TiO ₂ oxygen evolution electrocatalyst via sulfidation of natural ilmenites. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25032-25041.	10.3	26
113	Fe ³⁺ Promoted the Photocatalytic Defluorination of Perfluorooctanoic Acid (PFOA) over In ₂ O ₃ . <i>ACS ES&T Water</i> , 2021, 1, 2431-2439.	4.6	11
114	Fertiliser recovery from source-separated urine via membrane bioreactor and heat localized solar evaporation. <i>Water Research</i> , 2021, 207, 117810.	11.3	16
115	Methane production from algae in anaerobic digestion: Role of corncob ash supplementation. <i>Journal of Cleaner Production</i> , 2021, 327, 129485.	9.3	16
116	Response to Comment on "A Critical Review on Nitrous Oxide Production by Ammonia-Oxidizing Archaea". <i>Environmental Science & Technology</i> , 2021, 55, 799-800.	10.0	0
117	Revealing the mechanism of zinc oxide nanoparticles facilitating hydrogen production in alkaline anaerobic fermentation of waste activated sludge. <i>Journal of Cleaner Production</i> , 2021, 328, 129580.	9.3	14
118	Catalysts derived from Earth-abundant natural biomass enable efficient photocatalytic CO ₂ conversion for achieving a closed-loop carbon cycle. <i>Green Chemistry</i> , 2021, 23, 9683-9692.	9.0	4
119	Natural diatomite mediated continuous anaerobic sludge digestion: Performance, modelling and mechanisms. <i>Journal of Cleaner Production</i> , 2021, 329, 129750.	9.3	6
120	Rapid and strong biocidal effect of ferrate on sulfidogenic and methanogenic sewer biofilms. <i>Water Research</i> , 2020, 169, 115208.	11.3	38
121	Unveiling the mechanisms of medium-chain fatty acid production from waste activated sludge alkaline fermentation liquor through physiological, thermodynamic and metagenomic investigations. <i>Water Research</i> , 2020, 169, 115218.	11.3	124
122	Highly-efficient Pb ²⁺ removal from water by novel K ₂ W ₄ O ₁₃ nanowires: Performance, mechanisms and DFT calculation. <i>Chemical Engineering Journal</i> , 2020, 381, 122632.	12.7	26
123	Impact of coexistence of sludge flocs on nitrous oxide production in a granule-based nitrification system: A model-based evaluation. <i>Water Research</i> , 2020, 170, 115312.	11.3	14
124	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
125	Enhanced dewaterability of anaerobically digested sludge by in-situ free nitrous acid treatment. <i>Water Research</i> , 2020, 169, 115264.	11.3	73
126	Impact of roxithromycin on waste activated sludge anaerobic digestion: Methane production, carbon transformation and antibiotic resistance genes. <i>Science of the Total Environment</i> , 2020, 703, 134899.	8.0	65

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127	Interaction between perfluorooctanoic acid and aerobic granular sludge. <i>Water Research</i> , 2020, 169, 115249.	11.3	75
128	How does synthetic musks affect methane production from the anaerobic digestion of waste activated sludge?. <i>Science of the Total Environment</i> , 2020, 713, 136594.	8.0	8
129	Boride-based electrocatalysts: Emerging candidates for water splitting. <i>Nano Research</i> , 2020, 13, 293-314.	10.4	133
130	Catalytic reduction of nitrogen to produce ammonia by bismuth-based catalysts: state of the art and future prospects. <i>Materials Horizons</i> , 2020, 7, 1014-1029.	12.2	134
131	Accelerated separation of photogenerated charge carriers and enhanced photocatalytic performance of g-C ₃ N ₄ by Bi ₂ S ₃ nanoparticles. <i>Chinese Journal of Catalysis</i> , 2020, 41, 249-258.	14.0	91
132	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
133	Nitrous oxide production from wastewater treatment: The potential as energy resource rather than potent greenhouse gas. <i>Journal of Hazardous Materials</i> , 2020, 387, 121694.	12.4	26
134	Graphitic carbon nitride with different dimensionalities for energy and environmental applications. <i>Nano Research</i> , 2020, 13, 18-37.	10.4	214
135	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
136	New perspectives on microbial communities and biological nitrogen removal processes in wastewater treatment systems. <i>Bioresource Technology</i> , 2020, 297, 122491.	9.6	78
137	Heterogeneous Electro-Fenton catalysis with HKUST-1-derived Cu@C decorated in 3D graphene network. <i>Chemosphere</i> , 2020, 243, 125423.	8.2	47
138	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
139	Photochemical decomposition of perfluorochemicals in contaminated water. <i>Water Research</i> , 2020, 186, 116311.	11.3	37
140	Improving the treatment of waste activated sludge using calcium peroxide. <i>Water Research</i> , 2020, 187, 116440.	11.3	90
141	Electrocatalysts for acidic oxygen evolution reaction: Achievements and perspectives. <i>Nano Energy</i> , 2020, 78, 105392.	16.0	86
142	Mitigating nitrous oxide emissions at a full-scale wastewater treatment plant. <i>Water Research</i> , 2020, 185, 116196.	11.3	48
143	A Critical Review on Nitrous Oxide Production by Ammonia-Oxidizing Archaea. <i>Environmental Science & Technology</i> , 2020, 54, 9175-9190.	10.0	47
144	Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. <i>New Journal of Chemistry</i> , 2020, 44, 20651-20658.	2.8	55

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145	Anaerobic membrane bioreactors—An introduction. , 2020, , 1-24.		1
146	Ferrate effectively removes antibiotic resistance genes from wastewater through combined effect of microbial DNA damage and coagulation. <i>Water Research</i> , 2020, 185, 116273.	11.3	44
147	Efficient monolithic perovskite/organic tandem solar cells and their efficiency potential. <i>Nano Energy</i> , 2020, 78, 105238.	16.0	59
148	Zerovalent Iron Effectively Enhances Medium-Chain Fatty Acids Production from Waste Activated Sludge through Improving Sludge Biodegradability and Electron Transfer Efficiency. <i>Environmental Science & Technology</i> , 2020, 54, 10904-10915.	10.0	94
149	Calcium peroxide eliminates grease inhibition and promotes short-chain fatty acids production during anaerobic fermentation of food waste. <i>Bioresource Technology</i> , 2020, 316, 123947.	9.6	15
150	Long-Term Effects of Polyvinyl Chloride Microplastics on Anaerobic Granular Sludge for Recovering Methane from Wastewater. <i>Environmental Science & Technology</i> , 2020, 54, 9662-9671.	10.0	81
151	Iridium-based nanomaterials for electrochemical water splitting. <i>Nano Energy</i> , 2020, 78, 105270.	16.0	192
152	Microplastics Mitigation in Sewage Sludge through Pyrolysis: The Role of Pyrolysis Temperature. <i>Environmental Science and Technology Letters</i> , 2020, 7, 961-967.	8.7	67
153	Influences of Longitudinal Heterogeneity on Nitrous Oxide Production from Membrane-Aerated Biofilm Reactor: A Modeling Perspective. <i>Environmental Science & Technology</i> , 2020, 54, 10964-10973.	10.0	13
154	Medium-Chain fatty acids and long-chain alcohols production from waste activated sludge via two-stage anaerobic fermentation. <i>Water Research</i> , 2020, 186, 116381.	11.3	82
155	Modelling melamine biodegradation in a membrane aerated biofilm reactor. <i>Journal of Water Process Engineering</i> , 2020, 38, 101626.	5.6	5
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