

Dongbo Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2464050/publications.pdf>

Version: 2024-02-01

210
papers

13,806
citations

13099

68
h-index

26613

107
g-index

212
all docs

212
docs citations

212
times ranked

8359
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical assembly of graphene-bridged Ag ₃ PO ₄ /Ag/BiVO ₄ (040) Z-scheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 330-342.	20.2	752
2	Simultaneously efficient adsorption and photocatalytic degradation of tetracycline by Fe-based MOFs. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 273-284.	9.4	552
3	Enhanced Photocatalytic Degradation of Tetracycline by AgI/BiVO ₄ Heterojunction under Visible-Light Irradiation: Mineralization Efficiency and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32887-32900.	8.0	407
4	Various cell architectures of capacitive deionization: Recent advances and future trends. <i>Water Research</i> , 2019, 150, 225-251.	11.3	298
5	Effectiveness and mechanisms of phosphate adsorption on iron-modified biochars derived from waste activated sludge. <i>Bioresource Technology</i> , 2018, 247, 537-544.	9.6	297
6	The roles of free ammonia (FA) in biological wastewater treatment processes: A review. <i>Environment International</i> , 2019, 123, 10-19.	10.0	294
7	Adsorption of phosphate from aqueous solution using iron-zirconium modified activated carbon nanofiber: Performance and mechanism. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 17-23.	9.4	267
8	Free nitrous acid serving as a pretreatment method for alkaline fermentation to enhance short-chain fatty acid production from waste activated sludge. <i>Water Research</i> , 2015, 78, 111-120.	11.3	189
9	Mechanisms of peroxymonosulfate pretreatment enhancing production of short-chain fatty acids from waste activated sludge. <i>Water Research</i> , 2019, 148, 239-249.	11.3	188
10	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
11	Potential influences of exogenous pollutants occurred in waste activated sludge on anaerobic digestion: A review. <i>Journal of Hazardous Materials</i> , 2020, 383, 121176.	12.4	182
12	Enhanced dewaterability of waste activated sludge by Fe(II)-activated peroxymonosulfate oxidation. <i>Bioresource Technology</i> , 2016, 206, 134-140.	9.6	179
13	Photo-reduction of bromate in drinking water by metallic Ag and reduced graphene oxide (RGO) jointly modified BiVO ₄ under visible light irradiation. <i>Water Research</i> , 2016, 101, 555-563.	11.3	170
14	Free ammonia enhances dark fermentative hydrogen production from waste activated sludge. <i>Water Research</i> , 2018, 133, 272-281.	11.3	163
15	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
16	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
17	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2018, 130, 281-290.	11.3	156
18	Heterogeneous activation of peroxymonosulfate using Mn-Fe layered double hydroxide: Performance and mechanism for organic pollutant degradation. <i>Science of the Total Environment</i> , 2019, 663, 453-464.	8.0	151

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Advances in enhanced volatile fatty acid production from anaerobic fermentation of waste activated sludge. <i>Science of the Total Environment</i> , 2019, 694, 133741.	8.0	149
22	Hydrated lanthanum oxide-modified diatomite as highly efficient adsorbent for low-concentration phosphate removal from secondary effluents. <i>Journal of Environmental Management</i> , 2019, 231, 370-379.	7.8	140
23	Recent advances in conjugated microporous polymers for photocatalysis: designs, applications, and prospects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6434-6470.	10.3	140
24	An efficient and green pretreatment to stimulate short-chain fatty acids production from waste activated sludge anaerobic fermentation using free nitrous acid. <i>Chemosphere</i> , 2016, 144, 160-167.	8.2	137
25	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. <i>Water Research</i> , 2018, 145, 113-124.	11.3	137
26	Aged refuse enhances anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2017, 123, 724-733.	11.3	136
27	Effect of ciprofloxacin on biological nitrogen and phosphorus removal from wastewater. <i>Science of the Total Environment</i> , 2017, 605-606, 368-375.	8.0	127
28	How Does Poly(hydroxyalkanoate) Affect Methane Production from the Anaerobic Digestion of Waste-Activated Sludge?. <i>Environmental Science & Technology</i> , 2015, 49, 12253-12262.	10.0	125
29	How does zero valent iron activating peroxydisulfate improve the dewatering of anaerobically digested sludge?. <i>Water Research</i> , 2019, 163, 114912.	11.3	124
30	Potential impact of salinity on methane production from food waste anaerobic digestion. <i>Waste Management</i> , 2017, 67, 308-314.	7.4	123
31	Different activation methods in sulfate radical-based oxidation for organic pollutants degradation: Catalytic mechanism and toxicity assessment of degradation intermediates. <i>Science of the Total Environment</i> , 2021, 772, 145522.	8.0	123
32	Highly selective electrochemical nitrate reduction using copper phosphide self-supported copper foam electrode: Performance, mechanism, and application. <i>Water Research</i> , 2021, 193, 116881.	11.3	121
33	Facile synthesis of In ₂ S ₃ /UiO-66 composite with enhanced adsorption performance and photocatalytic activity for the removal of tetracycline under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 444-457.	9.4	120
34	Is denitrifying anaerobic methane oxidation-centered technologies a solution for the sustainable operation of wastewater treatment Plants?. <i>Bioresource Technology</i> , 2017, 234, 456-465.	9.6	117
35	Recyclable zero-valent iron activating peroxymonosulfate synchronously combined with thermal treatment enhances sludge dewaterability by altering physicochemical and biological properties. <i>Bioresource Technology</i> , 2018, 262, 294-301.	9.6	115
36	Modified MIL-100(Fe) for enhanced photocatalytic degradation of tetracycline under visible-light irradiation. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 364-376.	9.4	100

#	ARTICLE	IF	CITATIONS
37	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
38	Indirect electrochemical reduction of nitrate in water using zero-valent titanium anode: Factors, kinetics, and mechanism. <i>Water Research</i> , 2019, 157, 191-200.	11.3	95
39	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
40	Effect of poly aluminum chloride on dark fermentative hydrogen accumulation from waste activated sludge. <i>Water Research</i> , 2019, 153, 217-228.	11.3	93
41	Revealing the Underlying Mechanisms of How Sodium Chloride Affects Short-Chain Fatty Acid Production from the Cofermentation of Waste Activated Sludge and Food Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4675-4684.	6.7	92
42	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
43	A critical review of volatile fatty acids produced from waste activated sludge: enhanced strategies and its applications. <i>Environmental Science and Pollution Research</i> , 2019, 26, 13984-13998.	5.3	89
44	Effect of polyhydroxyalkanoates on dark fermentative hydrogen production from waste activated sludge. <i>Water Research</i> , 2015, 73, 311-322.	11.3	88
45	Free ammonia aids ultrasound pretreatment to enhance short-chain fatty acids production from waste activated sludge. <i>Bioresource Technology</i> , 2019, 275, 163-171.	9.6	88
46	Recent advances in partial denitrification-anaerobic ammonium oxidation process for mainstream municipal wastewater treatment. <i>Chemosphere</i> , 2021, 278, 130436.	8.2	88
47	Evaluation of Nitrous Oxide Emission from Sulfide- and Sulfur-Based Autotrophic Denitrification Processes. <i>Environmental Science & Technology</i> , 2016, 50, 9407-9415.	10.0	85
48	Wastewater Opportunities for Denitrifying Anaerobic Methane Oxidation. <i>Trends in Biotechnology</i> , 2017, 35, 799-802.	9.3	85
49	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
50	Advanced landfill leachate treatment using iron-carbon microelectrolysis- Fenton process: Process optimization and column experiments. <i>Journal of Hazardous Materials</i> , 2016, 318, 460-467.	12.4	83
51	Free nitrous acid-based nitrifying sludge treatment in a two-sludge system enhances nutrient removal from low-carbon wastewater. <i>Bioresource Technology</i> , 2017, 244, 920-928.	9.6	83
52	Enhanced high-quality biomethane production from anaerobic digestion of primary sludge by corn stover biochar. <i>Bioresource Technology</i> , 2020, 306, 123159.	9.6	83
53	Effect of diclofenac on the production of volatile fatty acids from anaerobic fermentation of waste activated sludge. <i>Bioresource Technology</i> , 2018, 254, 7-15.	9.6	80
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	New perspectives on microbial communities and biological nitrogen removal processes in wastewater treatment systems. <i>Bioresource Technology</i> , 2020, 297, 122491.	9.6	78
57	Sulfate radical induced degradation of Methyl Violet azo dye with CuFe layered doubled hydroxide as heterogeneous photoactivator of persulfate. <i>Journal of Environmental Management</i> , 2018, 227, 406-414.	7.8	77
58	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
59	A critical review on the application of biochar in environmental pollution remediation: Role of persistent free radicals (PFRs). <i>Journal of Environmental Sciences</i> , 2021, 108, 201-216.	6.1	76
60	How Does Chitosan Affect Methane Production in Anaerobic Digestion?. <i>Environmental Science & Technology</i> , 2021, 55, 15843-15852.	10.0	76
61	Interaction between perfluorooctanoic acid and aerobic granular sludge. <i>Water Research</i> , 2020, 169, 115249.	11.3	75
62	Approach of describing dynamic production of volatile fatty acids from sludge alkaline fermentation. <i>Bioresource Technology</i> , 2017, 238, 343-351.	9.6	73
63	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
64	Enhanced dewaterability of anaerobically digested sludge by in-situ free nitrous acid treatment. <i>Water Research</i> , 2020, 169, 115264.	11.3	73
65	Enhanced Short-Chain Fatty Acids from Waste Activated Sludge by Heat- CaO Advanced Thermal Hydrolysis Pretreatment: Parameter Optimization, Mechanisms, and Implications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3544-3555.	6.7	71
66	Electrochemical Cr(VI) removal from aqueous media using titanium as anode: Simultaneous indirect electrochemical reduction of Cr(VI) and in-situ precipitation of Cr(III). <i>Chemosphere</i> , 2020, 260, 127537.	8.2	71
67	Free ammonia-based pretreatment enhances phosphorus release and recovery from waste activated sludge. <i>Chemosphere</i> , 2018, 213, 276-284.	8.2	70
68	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
69	<i>In situ</i> chemical oxidation: peroxide or persulfate coupled with membrane technology for wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11944-11960.	10.3	69
70	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
71	Novel stepwise pH control strategy to improve short chain fatty acid production from sludge anaerobic fermentation. <i>Bioresource Technology</i> , 2018, 249, 431-438.	9.6	67
72	A "bottle-around-ship"-like method synthesized yolk-shell $\text{Ag}_3\text{PO}_4@\text{MIL-53}(\text{Fe})$ Z-scheme photocatalysts for enhanced tetracycline removal. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 501-511.	9.4	67

#	ARTICLE	IF	CITATIONS
73	Enhanced anaerobic co-digestion of waste activated sludge and food waste by sulfidated microscale zerovalent iron: Insights in direct interspecies electron transfer mechanism. <i>Bioresource Technology</i> , 2020, 316, 123901.	9.6	67
74	Heterogeneous activation of persulfate by Ag doped BiFeO ₃ composites for tetracycline degradation. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 33-45.	9.4	66
75	Heat pretreatment assists free ammonia to enhance hydrogen production from waste activated sludge. <i>Bioresource Technology</i> , 2019, 283, 316-325.	9.6	65
76	Photocatalytic degradation of tetracycline by metal-organic frameworks modified with Bi ₂ WO ₆ nanosheet under direct sunlight. <i>Chemosphere</i> , 2021, 284, 131386.	8.2	64
77	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
78	Recent advances in nitrous oxide production and mitigation in wastewater treatment. <i>Water Research</i> , 2020, 184, 116168.	11.3	61
79	Effect of triclocarban on hydrogen production from dark fermentation of waste activated sludge. <i>Bioresource Technology</i> , 2019, 279, 307-316.	9.6	60
80	Biogas production from anaerobic co-digestion of waste activated sludge: co-substrates and influencing parameters. <i>Reviews in Environmental Science and Biotechnology</i> , 2019, 18, 771-793.	8.1	59
81	Effect of nickel on the flocculability, settleability, and dewaterability of activated sludge. <i>Bioresource Technology</i> , 2017, 224, 188-196.	9.6	55
82	Enhanced volatile fatty acids production from waste activated sludge anaerobic fermentation by adding tofu residue. <i>Bioresource Technology</i> , 2019, 274, 430-438.	9.6	55
83	Effect of clarithromycin on the production of volatile fatty acids from waste activated sludge anaerobic fermentation. <i>Bioresource Technology</i> , 2019, 288, 121598.	9.6	54
84	In-situ growth of Bi_2O_3 nanosheets on g-C ₃ N ₄ to construct direct Z-scheme heterojunction with enhanced photocatalytic activities. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157795.	5.5	54
85	Enhanced ciprofloxacin removal by sludge-derived biochar: Effect of humic acid. <i>Chemosphere</i> , 2019, 231, 495-501.	8.2	53
86	Evaluating the potential impact of hydrochar on the production of short-chain fatty acid from sludge anaerobic digestion. <i>Bioresource Technology</i> , 2017, 246, 234-241.	9.6	52
87	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
88	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
89	Efficient degradation of bisphenol A via peroxydisulfate activation using in-situ N-doped carbon nanoparticles: Structure-function relationship and reaction mechanism. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 551-562.	9.4	52
90	Enhanced production of short-chain fatty acid from food waste stimulated by alkyl polyglycosides and its mechanism. <i>Waste Management</i> , 2015, 46, 133-139.	7.4	51

#	ARTICLE	IF	CITATIONS
91	Sulfamethazine (SMZ) affects fermentative short-chain fatty acids production from waste activated sludge. <i>Science of the Total Environment</i> , 2018, 639, 1471-1479.	8.0	51
92	Effective adsorption/electrocatalytic degradation of perchlorate using Pd/Pt supported on N-doped activated carbon fiber cathode. <i>Journal of Hazardous Materials</i> , 2017, 323, 602-610.	12.4	50
93	How does free ammonia-based sludge pretreatment improve methane production from anaerobic digestion of waste activated sludge. <i>Chemosphere</i> , 2018, 206, 491-501.	8.2	50
94	Influence of roxithromycin as antibiotic residue on volatile fatty acids recovery in anaerobic fermentation of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020, 394, 122570.	12.4	50
95	Synergistic adsorption and electrocatalytic reduction of bromate by Pd/N-doped loofah sponge-derived biochar electrode. <i>Journal of Hazardous Materials</i> , 2020, 386, 121651.	12.4	49
96	Peroxide/Zero-valent iron (Fe0) pretreatment for promoting dewaterability of anaerobically digested sludge: A mechanistic study. <i>Journal of Hazardous Materials</i> , 2020, 400, 123112.	12.4	49
97	Evaluating the effect of biochar on mesophilic anaerobic digestion of waste activated sludge and microbial diversity. <i>Bioresource Technology</i> , 2019, 294, 122235.	9.6	48
98	Effect of lignin on short-chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2022, 212, 118082.	11.3	48
99	Inducing mechanism of biological phosphorus removal driven by the aerobic/extendedâ€idle regime. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2798-2807.	3.3	47
100	Effect of acetate to glycerol ratio on enhanced biological phosphorus removal. <i>Chemosphere</i> , 2018, 196, 78-86.	8.2	47
101	Influence of surfactants on anaerobic digestion of waste activated sludge: acid and methane production and pollution removal. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 746-757.	9.0	47
102	Pretreatment of landfill leachate in near-neutral pH condition by persulfate activated Fe-C micro-electrolysis system. <i>Chemosphere</i> , 2019, 216, 749-756.	8.2	47
103	A Critical Review on Nitrous Oxide Production by Ammonia-Oxidizing Archaea. <i>Environmental Science & Technology</i> , 2020, 54, 9175-9190.	10.0	47
104	Enhanced volatile fatty acids production from waste activated sludge with synchronous phosphorus fixation and pathogens inactivation by calcium hypochlorite stimulation. <i>Science of the Total Environment</i> , 2020, 712, 136500.	8.0	47
105	Enhancing autotrophic nitrogen removal with a novel dissolved oxygen-differentiated airlift internal circulation reactor: Long-term operational performance and microbial characteristics. <i>Journal of Environmental Management</i> , 2021, 296, 113271.	7.8	46
106	Biohythane production and microbial characteristics of two alternating mesophilic and thermophilic two-stage anaerobic co-digesters fed with rice straw and pig manure. <i>Bioresource Technology</i> , 2021, 320, 124303.	9.6	45
107	Free ammonia-based sludge treatment reduces sludge production in the wastewater treatment process. <i>Chemosphere</i> , 2018, 205, 484-492.	8.2	44
108	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

#	ARTICLE	IF	CITATIONS
109	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
110	The behavior of melamine in biological wastewater treatment system. <i>Journal of Hazardous Materials</i> , 2017, 322, 445-453.	12.4	41
111	Facile synthesis of Mn, Ce co-doped g-C ₃ N ₄ composite for peroxymonosulfate activation towards organic contaminant degradation. <i>Chemosphere</i> , 2022, 293, 133472.	8.2	41
112	Self-assembly Z-scheme heterostructured photocatalyst of Ag ₂ O@Ag-modified bismuth vanadate for efficient photocatalytic degradation of single and dual organic pollutants under visible light irradiation. <i>RSC Advances</i> , 2016, 6, 60291-60307.	3.6	39
113	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
114	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
115	Insights into the synergy between functional microbes and dissolved oxygen partition in the single-stage partial nitrification-anammox granules system. <i>Bioresource Technology</i> , 2022, 347, 126364.	9.6	39
116	New insights into different surfactants' impacts on sludge fermentation: Focusing on the particular metabolic processes and microbial genetic traits. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	6.0	39
117	Photochemical decomposition of perfluorochemicals in contaminated water. <i>Water Research</i> , 2020, 186, 116311.	11.3	37
118	Perchlorate bioreduction linked to methane oxidation in a membrane biofilm reactor: Performance and microbial community structure. <i>Journal of Hazardous Materials</i> , 2018, 357, 244-252.	12.4	36
119	2D/2D FeNi-layered double hydroxide/bimetal-MOFs nanosheets for enhanced photo-Fenton degradation of antibiotics: Performance and synergetic degradation mechanism. <i>Chemosphere</i> , 2022, 287, 132061.	8.2	35
120	Enhancing Methane Production from Anaerobic Digestion of Waste Activated Sludge through a Novel Sodium Percarbonate (SPC) Pretreatment: Reaction Kinetics and Mechanisms. <i>ACS ES&T Engineering</i> , 2022, 2, 1326-1340.	7.6	35
121	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
122	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
123	Response of soil protozoa to acid mine drainage in a contaminated terrace. <i>Journal of Hazardous Materials</i> , 2022, 421, 126790.	12.4	33
124	Enhanced dewaterability of waste activated sludge with Fe(II)-activated hypochlorite treatment. <i>Environmental Science and Pollution Research</i> , 2018, 25, 27628-27638.	5.3	32
125	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
126	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

#	ARTICLE	IF	CITATIONS
127	Substrate Diffusion within Biofilms Significantly Influencing the Electron Competition during Denitrification. <i>Environmental Science & Technology</i> , 2019, 53, 261-269.	10.0	31
128	Effect of citric acid on extracellular polymeric substances disruption and cell lysis in the waste activated sludge by pH regulation. <i>Bioresource Technology</i> , 2020, 302, 122859.	9.6	31
129	One-pot synthesis of oxygen-vacancy-rich Cu-doped UiO-66 for collaborative adsorption and photocatalytic degradation of ciprofloxacin. <i>Science of the Total Environment</i> , 2022, 815, 151962.	8.0	31
130	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
131	An efficient process for wastewater treatment to mitigate free nitrous acid generation and its inhibition on biological phosphorus removal. <i>Scientific Reports</i> , 2015, 5, 8602.	3.3	28
132	Supramolecular self-assembled carbon nitride for the degradation of tetracycline hydrochloride. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9380-9386.	2.2	28
133	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
134	The fate and impact of TCC in nitrifying cultures. <i>Water Research</i> , 2020, 178, 115851.	11.3	28
135	The effects of thiosulfates on methane production from anaerobic co-digestion of waste activated sludge and food waste and mitigate method. <i>Journal of Hazardous Materials</i> , 2020, 384, 121363.	12.4	27
136	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
137	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
138	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
139	Self-assembly synthesis of petal-like Cl-doped g-C ₃ N ₄ nanosheets with tunable band structure for enhanced photocatalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 611, 125780.	4.7	26
140	Complete bromate and nitrate reduction using hydrogen as the sole electron donor in a rotating biofilm-electrode reactor. <i>Journal of Hazardous Materials</i> , 2016, 307, 82-90.	12.4	25
141	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
142	Revealing the intrinsic drawbacks of waste activated sludge for efficient anaerobic digestion and the potential mitigation strategies. <i>Bioresource Technology</i> , 2022, 345, 126482.	9.6	25
143	Assessment of Heterotrophic Growth Supported by Soluble Microbial Products in Anammox Biofilm using Multidimensional Modeling. <i>Scientific Reports</i> , 2016, 6, 27576.	3.3	24
144	New insight into modification of extracellular polymeric substances extracted from waste activated sludge by homogeneous Fe(II)/persulfate process. <i>Chemosphere</i> , 2020, 247, 125804.	8.2	24

#	ARTICLE	IF	CITATIONS
145	The fate of cyanuric acid in biological wastewater treatment system and its impact on biological nutrient removal. Journal of Environmental Management, 2018, 206, 901-909.	7.8	24
146	In-depth research on percarbonate expediting zero-valent iron corrosion for conditioning anaerobically digested sludge. Journal of Hazardous Materials, 2021, 419, 126389.	12.4	23
147	Phase Equilibria of <i>trans</i> -1,3,3,3-Tetrafluoropropene with Three Imidazolium Ionic Liquids. Journal of Chemical & Engineering Data, 2017, 62, 1825-1831.	1.9	22
148	Metal-Organic Framework Supported Palladium Nanoparticles: Applications and Mechanisms. Particle and Particle Systems Characterization, 2019, 36, 1800557.	2.3	22
149	Improving nutrients removal and energy recovery from wastes using hydrochar. Science of the Total Environment, 2021, 783, 146980.	8.0	22
150	Peroxymonosulfate (PMS) activation by mackinawite for the degradation of organic pollutants: Underappreciated role of dissolved sulfur derivatives. Science of the Total Environment, 2022, 811, 151421.	8.0	22
151	Effects of free nitrous acid and freezing co-pretreatment on sludge short-chain fatty acids production and dewaterability. Science of the Total Environment, 2019, 669, 600-607.	8.0	21
152	Norfloxacin-induced effect on enhanced biological phosphorus removal from wastewater after long-term exposure. Journal of Hazardous Materials, 2020, 392, 122336.	12.4	21
153	Free nitrous acid-based nitrifying sludge treatment in a two-sludge system obtains high polyhydroxyalkanoates accumulation and satisfied biological nutrients removal. Bioresource Technology, 2019, 284, 16-24.	9.6	20
154	Insights into how poly aluminum chloride and poly ferric sulfate affect methane production from anaerobic digestion of waste activated sludge. Science of the Total Environment, 2022, 811, 151413.	8.0	20
155	Exploring the linkage between free nitrous acid accumulation and nitrous oxide emissions in a novel static/oxic/anoxic process. Bioresource Technology, 2020, 304, 123011.	9.6	19
156	Effects of different ratios of glucose to acetate on phosphorus removal and microbial community of enhanced biological phosphorus removal (EBPR) system. Environmental Science and Pollution Research, 2017, 24, 4494-4505.	5.3	18
157	Nitrate addition improves hydrogen production from acidic fermentation of waste activated sludge. Chemosphere, 2019, 235, 814-824.	8.2	18
158	Biological perchlorate reduction: which electron donor we can choose?. Environmental Science and Pollution Research, 2019, 26, 16906-16922.	5.3	18
159	Synthesis of mesoporous carbon nitride by molten salt-assisted silica aerogel for Rhodamine B adsorption and photocatalytic degradation. Journal of Materials Science, 2021, 56, 11248-11265.	3.7	18
160	Revealing the mechanisms of Triclosan affecting of methane production from waste activated sludge. Bioresource Technology, 2020, 312, 123505.	9.6	18
161	Synergistic effect of free nitrite acid integrated with biosurfactant alkyl polyglucose on sludge anaerobic fermentation. Waste Management, 2018, 78, 310-317.	7.4	17
162	Crystal phase transition of β -Bi ₂ O ₃ and its enhanced photocatalytic activities for tetracycline hydrochloride. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127068.	4.7	17

#	ARTICLE	IF	CITATIONS
163	Long-term effects of Cu(II) on denitrification in hydrogen-based membrane biofilm reactor: Performance, extracellular polymeric substances and microbial communities. <i>Science of the Total Environment</i> , 2022, 830, 154526.	8.0	17
164	Understanding the interaction between triclocarban and denitrifiers. <i>Journal of Hazardous Materials</i> , 2021, 401, 123343.	12.4	16
165	The inhibitory effect of thiosulfate on volatile fatty acid and hydrogen production from anaerobic co-fermentation of food waste and waste activated sludge. <i>Bioresource Technology</i> , 2020, 297, 122428.	9.6	15
166	Influence of low voltage electric field stimulation on hydrogen generation from anaerobic digestion of waste activated sludge. <i>Science of the Total Environment</i> , 2020, 704, 135849.	8.0	15
167	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
168	Octylphenol facilitates fermentative volatile fatty acids recovery from waste activated sludge. <i>Science of the Total Environment</i> , 2020, 729, 139035.	8.0	15
169	Sludge Incineration Bottom Ash Enhances Anaerobic Digestion of Primary Sludge toward Highly Efficient Sludge Anaerobic Codigestion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3005-3012.	6.7	15
170	Heterotrophic denitrifiers growing on soluble microbial products contribute to nitrous oxide production in anammox biofilm: Model evaluation. <i>Journal of Environmental Management</i> , 2019, 242, 309-314.	7.8	14
171	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
172	Improved biological phosphorus removal induced by an oxic/extended-idle process using glycerol and acetate at equal fractions. <i>RSC Advances</i> , 2016, 6, 86165-86173.	3.6	12
173	Modeling electron competition among nitrogen oxides reduction and N ₂ O accumulation in hydrogenotrophic denitrification. <i>Biotechnology and Bioengineering</i> , 2018, 115, 978-988.	3.3	12
174	Influence of chlortetracycline as an antibiotic residue on nitrous oxide emissions from wastewater treatment. <i>Bioresource Technology</i> , 2020, 313, 123696.	9.6	12
175	Denitrifying biofilm processes for wastewater treatment: developments and perspectives. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 40-67.	2.4	12
176	Triclosan facilitates the recovery of volatile fatty acids from waste activated sludge. <i>Science of the Total Environment</i> , 2021, 754, 142336.	8.0	12
177	Ferric chloride aiding nitrite pretreatment for the enhancement of the quantity and quality of short-chain fatty acids production in waste activated sludge. <i>Water Research</i> , 2022, 219, 118569.	11.3	12
178	Densities of FAMEs or FAEEs with ethanol at temperatures from 283.15 to 318.15 K. <i>Physics and Chemistry of Liquids</i> , 2018, 56, 33-42.	1.2	11
179	Facile synthesis of $\text{In}_2\text{S}_3/\text{Bi}_2\text{O}_3$ hetero-phase junction by a solvothermal method for enhanced photocatalytic activities. <i>Molecular Catalysis</i> , 2021, 503, 111431.	2.0	11
180	Tonalide facilitates methane production from anaerobic digestion of waste activated sludge. <i>Science of the Total Environment</i> , 2021, 779, 146195.	8.0	11

#	ARTICLE	IF	CITATIONS
181	Enhancing methane production from anaerobic digestion of waste activated sludge with addition of sodium lauroyl sarcosinate. <i>Bioresource Technology</i> , 2021, 336, 125321.	9.6	11
182	Evaluating the effect of diclofenac on hydrogen production by anaerobic fermentation of waste activated sludge. <i>Journal of Environmental Management</i> , 2022, 308, 114641.	7.8	11
183	Volumetric Properties of 1-Butyl-3-methylimidazolium Chloride with Organic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 3958-3966.	1.9	10
184	ZIF-8-derived photocatalyst membrane for water decontamination: From static adsorption-degradation to dynamic flow removal. <i>Science of the Total Environment</i> , 2022, 824, 153865.	8.0	10
185	The fate of triclocarban in activated sludge and its influence on biological wastewater treatment system. <i>Journal of Environmental Management</i> , 2020, 276, 111237.	7.8	9
186	Unveiling the different faces of chlortetracycline in fermentative volatile fatty acid production from waste activated sludge. <i>Bioresource Technology</i> , 2021, 329, 124875.	9.6	9
187	Revealing the mechanisms of rhamnolipid enhanced hydrogen production from dark fermentation of waste activated sludge. <i>Science of the Total Environment</i> , 2022, 806, 150347.	8.0	9
188	Synthesis of porous pinecone-like structure via facile carbon quantum dots modulation: A promising approach for improving the photocatalytic capability of carbon nitride. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107757.	6.7	9
189	Improved degradation of anaerobically digested sludge during post aerobic digestion using ultrasonic pretreatment. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 857-864.	2.4	8
190	Sulfate radical-mediated degradation of phenol and methylene blue by manganese oxide octahedral molecular sieve (OMS-2) activation of peroxymonosulfate. <i>Environmental Science and Pollution Research</i> , 2019, 26, 12963-12974.	5.3	8
191	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
192	Electro-assisted autohydrogenotrophic reduction of perchlorate and microbial community in a dual-chamber biofilm-electrode reactor. <i>Chemosphere</i> , 2021, 264, 128548.	8.2	8
193	Sulfite-based pretreatment promotes volatile fatty acids production from microalgae: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2022, 354, 127179.	9.6	8
194	Kinetic assessment of simultaneous removal of arsenite, chlorate and nitrate under autotrophic and mixotrophic conditions. <i>Science of the Total Environment</i> , 2018, 628-629, 85-93.	8.0	7
195	Free Ammonia Pretreatment to Enhance Biodegradation of Anaerobically Digested Sludge in Post Aerobic Digestion. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11836-11842.	6.7	6
196	Reducing nitrous oxide emission in a sequencing batch reactor operated as static/aerobic/anoxic (SOA) process. <i>Science of the Total Environment</i> , 2019, 693, 133619.	8.0	6
197	Template-free synthesis of high specific surface area gauze-like porous graphitic carbon nitride for efficient photocatalytic degradation of tetracycline hydrochloride. <i>Journal of Materials Science</i> , 2021, 56, 4641-4653.	3.7	6
198	The fate and impact of coagulants/flocculants in sludge treatment systems. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1387-1401.	2.4	6

#	ARTICLE	IF	CITATIONS
199	The degradation of allyl isothiocyanate and its impact on methane production from anaerobic co-digestion of kitchen waste and waste activated sludge. <i>Bioresource Technology</i> , 2022, 347, 126366.	9.6	6
200	Co-doped Fe-MIL-100 as an adsorbent for tetracycline removal from aqueous solution. <i>Environmental Science and Pollution Research</i> , 2022, 29, 55026-55038.	5.3	6
201	Effect of wet surface treated nano-SiO ₂ on mechanical properties of polypropylene composite. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 354-357.	1.0	5
202	Effect and mechanism of carbon sources on phosphorus uptake by microorganisms in sequencing batch reactors with the single-stage oxic process. <i>Science in China Series B: Chemistry</i> , 2009, 52, 2358-2365.	0.8	5
203	TGF- β 1 Facilitates TAp63 \pm Protein Lysosomal Degradation to Promote Pancreatic Cancer Cell Migration. <i>Biology</i> , 2021, 10, 597.	2.8	5
204	Constructing crystalline needle-mushroom-like/ amorphous nanosheet carbon nitride homojunction by molten salt method for photocatalytic degradation of tetracycline hydrochloride. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 6043-6058.	2.2	4
205	Mechanism and Origin of Stereoselectivity of Ni-Catalyzed Cyclization/Carboxylation of Bromoalkynes with CO ₂ . <i>Journal of Organic Chemistry</i> , 2022, 87, 8342-8350.	3.2	4
206	Modeling aerobic biotransformation of vinyl chloride by vinyl chloride-assimilating bacteria, methanotrophs and ethenotrophs. <i>Journal of Hazardous Materials</i> , 2017, 332, 97-103.	12.4	3
207	China's highways threaten wild camels. <i>Science</i> , 2019, 364, 1242-1242.	12.6	3
208	Modeling effects of H ₂ S on electron competition among nitrogen oxide reduction and N ₂ O accumulation during denitrification. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 533-542.	2.4	2
209	Land reclamation threatens sandpipers. <i>Science</i> , 2019, 365, 454-454.	12.6	0
210	Enhanced the Synergistic Effect of Tetracycline Adsorption and Photocatalytic Degradation on a Mesoporous Carbon Nitride. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 1567-1581.	3.7	0