

Fei Chen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

6,486
citations

51
h-index

79
g-index

98
ext. papers

7,969
ext. citations

10.5
avg, IF

6.15
L-index

#	Paper	IF	Citations
98	Simultaneously efficient adsorption and photocatalytic degradation of tetracycline by Fe-based MOFs. <i>Journal of Colloid and Interface Science</i> , 2018 , 519, 273-284	9.3	341
97	Enhanced Photocatalytic Degradation of Tetracycline by AgI/BiVO Heterojunction under Visible-Light Irradiation: Mineralization Efficiency and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32887-32900	9.5	325
96	Novel ternary heterojunction photocatalyst of Ag nanoparticles and g-C ₃ N ₄ nanosheets co-modified BiVO ₄ for wider spectrum visible-light photocatalytic degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , 2017 , 205, 133-147	21.8	254
95	Heterogeneous activation of peroxymonosulfate by Fe-Co layered doubled hydroxide for efficient catalytic degradation of Rhoadmine B. <i>Chemical Engineering Journal</i> , 2017 , 321, 222-232	14.7	217
94	Effectiveness and mechanisms of phosphate adsorption on iron-modified biochars derived from waste activated sludge. <i>Bioresource Technology</i> , 2018 , 247, 537-544	11	194
93	Efficient construction of bismuth vanadate-based Z-scheme photocatalyst for simultaneous Cr(VI) reduction and ciprofloxacin oxidation under visible light: Kinetics, degradation pathways and mechanism. <i>Chemical Engineering Journal</i> , 2018 , 348, 157-170	14.7	153
92	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, 111-20	12.5	152
91	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	12.5	147
90	Enhanced dewaterability of waste activated sludge by Fe(II)-activated peroxymonosulfate oxidation. <i>Bioresource Technology</i> , 2016 , 206, 134-140	11	127
89	Understanding and mitigating the toxicity of cadmium to the anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2017 , 124, 269-279	12.5	126
88	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	12.5	126
87	Mechanisms of peroxymonosulfate pretreatment enhancing production of short-chain fatty acids from waste activated sludge. <i>Water Research</i> , 2019 , 148, 239-249	12.5	119
86	Triclocarban enhances short-chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2017 , 127, 150-161	12.5	117
85	Free ammonia enhances dark fermentative hydrogen production from waste activated sludge. <i>Water Research</i> , 2018 , 133, 272-281	12.5	117
84	The underlying mechanism of calcium peroxide pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2019 , 164, 114934	12.5	114
83	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2018 , 130, 281-290	12.5	112
82	Aged refuse enhances anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2017 , 123, 724-732	12.5	107

81	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, 160-7	8.4	105
80	Photocatalytic degradation of perfluorooctanoic acid and perfluorooctane sulfonate in water: A critical review. <i>Chemical Engineering Journal</i> , 2017 , 328, 927-942	14.7	103
79	Calcium peroxide promotes hydrogen production from dark fermentation of waste activated sludge. <i>Chemical Engineering Journal</i> , 2019 , 355, 22-32	14.7	102
78	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	11	96
77	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. <i>Water Research</i> , 2018 , 145, 113-124	12.5	96
76	Novel insights into enzymatic-enhanced anaerobic digestion of waste activated sludge by three-dimensional excitation and emission matrix fluorescence spectroscopy. <i>Chemosphere</i> , 2013 , 91, 579-85	8.4	86
75	Potential impact of salinity on methane production from food waste anaerobic digestion. <i>Waste Management</i> , 2017 , 67, 308-314	8.6	85
74	Facile synthesis of InS/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	9.3	83
73	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	7.9	82
72	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	10.2	81
71	Visible-light photocatalytic degradation of multiple antibiotics by AgI nanoparticle-sensitized Bi5O7I microspheres: Enhanced interfacial charge transfer based on Z-scheme heterojunctions. <i>Journal of Catalysis</i> , 2017 , 352, 160-170	7.3	76
70	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	8.3	75
69	Wastewater Opportunities for Denitrifying Anaerobic Methane Oxidation. <i>Trends in Biotechnology</i> , 2017 , 35, 799-802	15.1	74
68	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	11	71
67	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	11	69
66	Improved biological phosphorus removal performance driven by the aerobic/extended-idle regime with propionate as the sole carbon source. <i>Water Research</i> , 2012 , 46, 3868-78	12.5	69
65	Free ammonia aids ultrasound pretreatment to enhance short-chain fatty acids production from waste activated sludge. <i>Bioresource Technology</i> , 2019 , 275, 163-171	11	66
64	Simultaneous perchlorate and nitrate removal coupled with electricity generation in autotrophic denitrifying biocathode microbial fuel cell. <i>Chemical Engineering Journal</i> , 2017 , 308, 783-790	14.7	65

63	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	11	65
62	Approach of describing dynamic production of volatile fatty acids from sludge alkaline fermentation. <i>Bioresource Technology</i> , 2017 , 238, 343-351	11	64
61	Sulfite serving as a pretreatment method for alkaline fermentation to enhance short-chain fatty acid production from waste activated sludge. <i>Chemical Engineering Journal</i> , 2020 , 385, 123991	14.7	63
60	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	11	60
59	Enhanced visible light photocatalytic activity and mechanism of ZnSn(OH) ₆ nanocubes modified with AgI nanoparticles. <i>Catalysis Communications</i> , 2016 , 73, 1-6	3.2	59
58	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	9.3	58
57	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	11	58
56	Enhanced short-chain fatty acids production from waste activated sludge by sophorolipid: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019 , 284, 456-465	11	57
55	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	8.3	56
54	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	11	54
53	Effect of initial pH on short chain fatty acid production during the anaerobic fermentation of membrane bioreactor sludge enhanced by alkyl polyglucoside. <i>International Biodeterioration and Biodegradation</i> , 2015 , 104, 283-289	4.8	54
52	Electrocatalytic hydrodechlorination of 4-chlorophenol on Pd supported multi-walled carbon nanotubes particle electrodes. <i>Chemical Engineering Journal</i> , 2019 , 358, 903-911	14.7	54
51	Free ammonia-based pretreatment enhances phosphorus release and recovery from waste activated sludge. <i>Chemosphere</i> , 2018 , 213, 276-284	8.4	54
50	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	8.3	54
49	Synergetic transformations of multiple pollutants driven by BiVO ₄ -catalyzed sulfite under visible light irradiation: Reaction kinetics and intrinsic mechanism. <i>Chemical Engineering Journal</i> , 2019 , 355, 624-636	14.7	52
48	Role of free nitrous acid in the pretreatment of waste activated sludge: Extracellular polymeric substances disruption or cells lysis?. <i>Chemical Engineering Journal</i> , 2018 , 336, 28-37	14.7	52
47	Novel stepwise pH control strategy to improve short chain fatty acid production from sludge anaerobic fermentation. <i>Bioresource Technology</i> , 2018 , 249, 431-438	11	51
46	Enhanced Short-Chain Fatty Acids from Waste Activated Sludge by Heat/O ₂ Advanced Thermal Hydrolysis Pretreatment: Parameter Optimization, Mechanisms, and Implications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3544-3555	8.3	48

45	Nickel toxicity to the performance and microbial community of enhanced biological phosphorus removal system. <i>Chemical Engineering Journal</i> , 2017 , 313, 415-423	14.7	47
44	Facile synthesis of visible-light-active BiOI modified Bi ₂ MoO ₆ photocatalysts with highly enhanced photocatalytic activity. <i>Ceramics International</i> , 2016 , 42, 2515-2525	5.1	47
43	Sulfate radical induced degradation of Methyl Violet azo dye with CuFe layered double hydroxide as heterogeneous photoactivator of persulfate. <i>Journal of Environmental Management</i> , 2018 , 227, 406-414	7.9	47
42	Heat pretreatment assists free ammonia to enhance hydrogen production from waste activated sludge. <i>Bioresource Technology</i> , 2019 , 283, 316-325	11	45
41	Effect of triclocarban on hydrogen production from dark fermentation of waste activated sludge. <i>Bioresource Technology</i> , 2019 , 279, 307-316	11	43
40	Mechanistic insights into the effect of poly ferric sulfate on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021 , 189, 116645	12.5	43
39	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	12.8	41
38	Enhanced visible-light-driven photocatalytic removal of refractory pollutants by Zn/Fe mixed metal oxide derived from layered double hydroxide. <i>Catalysis Communications</i> , 2017 , 99, 15-19	3.2	40
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	12.5	40
36	Effect of acetate to glycerol ratio on enhanced biological phosphorus removal. <i>Chemosphere</i> , 2018 , 196, 78-86	8.4	39
35	How does free ammonia-based sludge pretreatment improve methane production from anaerobic digestion of waste activated sludge. <i>Chemosphere</i> , 2018 , 206, 491-501	8.4	39
34	Effect of nickel on the flocculability, settleability, and dewaterability of activated sludge. <i>Bioresource Technology</i> , 2017 , 224, 188-196	11	37
33	The behavior of melamine in biological wastewater treatment system. <i>Journal of Hazardous Materials</i> , 2017 , 322, 445-453	12.8	36
32	Highly-efficient degradation of amiloride by sulfate radicals-based photocatalytic processes: Reactive kinetics, degradation products and mechanism. <i>Chemical Engineering Journal</i> , 2018 , 354, 983-994	14.7	35
31	Towards hydrogen production from waste activated sludge: Principles, challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 135, 110283	16.2	35
30	Evaluation of the feasibility of alcohols serving as external carbon sources for biological phosphorus removal induced by the oxic/extended-idle regime. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 827-37	4.9	34
29	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	11	34
28	Catalytic and electrocatalytic reduction of perchlorate in water [A review]. <i>Chemical Engineering Journal</i> , 2016 , 306, 1081-1091	14.7	34

27	Plasmonic photocatalyst Ag@AgCl/ZnSn(OH) ₆ : synthesis, characterization and enhanced visible-light photocatalytic activity in the decomposition of dyes and phenol. <i>RSC Advances</i> , 2015 , 5, 63132-63134	3.7	33
26	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	3.7	32
25	Free ammonia-based sludge treatment reduces sludge production in the wastewater treatment process. <i>Chemosphere</i> , 2018 , 205, 484-492	8.4	30
24	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	8.3	29
23	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	12.8	24
22	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	4.9	23
21	Mechanisms of potassium permanganate pretreatment improving anaerobic fermentation performance of waste activated sludge. <i>Chemical Engineering Journal</i> , 2021 , 406, 126797	14.7	23
20	Adsorptive Bromate Removal from Aqueous Solution by Commercial Strongly Basic Resin Impregnated with Hydrated Ferric Oxide (HFO): Kinetics and Equilibrium Studies. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1305-1312	2.8	22
19	The fate of cyanuric acid in biological wastewater treatment system and its impact on biological nutrient removal. <i>Journal of Environmental Management</i> , 2018 , 206, 901-909	7.9	22
18	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	11	19
17	The fate and impact of TCC in nitrifying cultures. <i>Water Research</i> , 2020 , 178, 115851	12.5	19
16	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	12.8	19
15	Landfill leachate treatment by coagulation/flocculation combined with microelectrolysis-Fenton processes. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 1862-1870	2.6	16
14	Electrochemically induced pitting corrosion of Ti anode: Application to the indirect reduction of bromate. <i>Chemical Engineering Journal</i> , 2016 , 289, 114-122	14.7	15
13	Synergistic effect of free nitrite acid integrated with biosurfactant alkyl polyglucose on sludge anaerobic fermentation. <i>Waste Management</i> , 2018 , 78, 310-317	8.6	14
12	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	8.3	12
11	Promotion of ZnSn(OH) ₆ photoactivity by constructing heterojunction with Ag@Ag ₃ PO ₄ nanoparticles: Visible light elimination of single or multiple dyes. <i>Catalysis Communications</i> , 2016 , 84, 137-141	3.2	11
10	How Does Chitosan Affect Methane Production in Anaerobic Digestion?. <i>Environmental Science & Technology</i> , 2021 , 55, 15843-15852	10.3	10

9	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	10.2	10
8	Nitrate addition improves hydrogen production from acidic fermentation of waste activated sludge. <i>Chemosphere</i> , 2019 , 235, 814-824	8.4	9
7	The inhibitory effect of thiosulfinate 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	11	9
6	Understanding the interaction between triclocarban and denitrifiers. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123343	12.8	8
5	Understanding and regulating the impact of tetracycline to the anaerobic fermentation of waste activated sludge. <i>Journal of Cleaner Production</i> , 2021 , 313, 127929	10.3	7
4	Iron electrodes activating persulfate enhances acetic acid production from waste activated sludge. <i>Chemical Engineering Journal</i> , 2020 , 390, 124580	14.7	6
3	Membrane-type smart metamaterials for multi-modal sound insulation. <i>Journal of the Acoustical Society of America</i> , 2018 , 144, 3514	2.2	2
2	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	10.3	1
1	Biomass-derived carbon quantum dots modified Bi ₂ MoO ₆ /Bi ₂ S ₃ heterojunction for efficient photocatalytic removal of organic pollutants and Cr (VI). <i>Separation and Purification Technology</i> , 2022 , 291, 120901	8.3	0