Fei Chen

List of Publications by Year in Descending Order

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	Biomass-derived carbon quantum dots modified Bi2MoO6/Bi2S3 heterojunction for efficient photocatalytic removal of organic pollutants and Cr (VI). *Separation and Purification Technology*, **2022**, 291, 120901	8.3	0
97	Free ammonia pretreatment assists potassium ferrate to enhance the production of short-chain fatty acids from waste activated sludge: Performance, mechanisms and applications. *Journal of Cleaner Production*, **2021**, 328, 129620	10.3	1
96	How Does Chitosan Affect Methane Production in Anaerobic Digestion?. *Environmental Science & Technology*, **2021**, 55, 15843-15852	10.3	10
95	Understanding the interaction between triclocarban and denitrifiers. *Journal of Hazardous Materials*, **2021**, 401, 123343	12.8	8
94	Mechanisms of potassium permanganate pretreatment improving anaerobic fermentation performance of waste activated sludge. *Chemical Engineering Journal*, **2021**, 406, 126797	14.7	23
93	Towards hydrogen production from waste activated sludge: Principles, challenges and perspectives. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110283	16.2	35
92	Mechanistic insights into the effect of poly ferric sulfate on anaerobic digestion of waste activated sludge. *Water Research*, **2021**, 189, 116645	12.5	43
91	Understanding the fate and impact of capsaicin in anaerobic co-digestion of food waste and waste activated sludge. *Water Research*, **2021**, 188, 116539	12.5	40
90	Understanding and regulating the impact of tetracycline to the anaerobic fermentation of waste activated sludge. *Journal of Cleaner Production*, **2021**, 313, 127929	10.3	7
89	The fate and impact of TCC in nitrifying cultures. *Water Research*, **2020**, 178, 115851	12.5	19
88	Performance and Mechanism of Potassium Ferrate(VI) Enhancing Dark Fermentative Hydrogen Accumulation from Waste Activated Sludge. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 8681-8691	8.3	12
87	Iron electrodes activating persulfate enhances acetic acid production from waste activated sludge. *Chemical Engineering Journal*, **2020**, 390, 124580	14.7	6
86	Modified MIL-100(Fe) for enhanced photocatalytic degradation of tetracycline under visible-light irradiation. *Journal of Colloid and Interface Science*, **2020**, 574, 364-376	9.3	58
85	Sulfite serving as a pretreatment method for alkaline fermentation to enhance short-chain fatty acid production from waste activated sludge. *Chemical Engineering Journal*, **2020**, 385, 123991	14.7	63
84	The inhibitory effect of thiosulfinate on volatile fatty acid and hydrogen production from anaerobic co-fermentation of food waste and waste activated sludge. *Bioresource Technology*, **2020**, 297, 122428	11	9
83	Influence of low voltage electric field stimulation on hydrogen generation from anaerobic digestion of waste activated sludge. *Science of the Total Environment*, **2020**, 704, 135849	10.2	10
82	The effects of thiosulfinates on methane production from anaerobic co-digestion of waste activated sludge and food waste and mitigate method. *Journal of Hazardous Materials*, **2020**, 384, 121363	12.8	19

81	Heterogeneous activation of peroxymonosulfate using Mn-Fe layered double hydroxide: Performance and mechanism for organic pollutant degradation. *Science of the Total Environment*, **2019**, 663, 453-464	10.2	81
80	Nitrate addition improves hydrogen production from acidic fermentation of waste activated sludge. *Chemosphere*, **2019**, 235, 814-824	8.4	9
79	Heat pretreatment assists free ammonia to enhance hydrogen production from waste activated sludge. *Bioresource Technology*, **2019**, 283, 316-325	11	45
78	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	11	19
77	Enhanced short-chain fatty acids production from waste activated sludge by sophorolipid: Performance, mechanism, and implication. *Bioresource Technology*, **2019**, 284, 456-465	11	57
76	Thermal-alkaline pretreatment of polyacrylamide flocculated waste activated sludge: Process optimization and effects on anaerobic digestion and polyacrylamide degradation. *Bioresource Technology*, **2019**, 281, 158-167	11	54
75	Effect of triclocarban on hydrogen production from dark fermentation of waste activated sludge. *Bioresource Technology*, **2019**, 279, 307-316	11	43
74	Calcium peroxide promotes hydrogen production from dark fermentation of waste activated sludge. *Chemical Engineering Journal*, **2019**, 355, 22-32	14.7	102
73	The underlying mechanism of calcium peroxide pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. *Water Research*, **2019**, 164, 114934	12.5	114
72	Unveiling the mechanisms of how cationic polyacrylamide affects short-chain fatty acids accumulation during long-term anaerobic fermentation of waste activated sludge. *Water Research*, **2019**, 155, 142-151	12.5	126
71	Synergetic transformations of multiple pollutants driven by BiVO4-catalyzed sulfite under visible light irradiation: Reaction kinetics and intrinsic mechanism. *Chemical Engineering Journal*, **2019**, 355, 624-636	14.7	52
70	Free ammonia aids ultrasound pretreatment to enhance short-chain fatty acids production from waste activated sludge. *Bioresource Technology*, **2019**, 275, 163-171	11	66
69	Enhanced Short-Chain Fatty Acids from Waste Activated Sludge by Heat□aO2 Advanced Thermal Hydrolysis Pretreatment: Parameter Optimization, Mechanisms, and Implications. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3544-3555	8.3	48
68	Mechanisms of peroxymonosulfate pretreatment enhancing production of short-chain fatty acids from waste activated sludge. *Water Research*, **2019**, 148, 239-249	12.5	119
67	Hydrated lanthanum oxide-modified diatomite as highly efficient adsorbent for low-concentration phosphate removal from secondary effluents. *Journal of Environmental Management*, **2019**, 231, 370-379	7.9	82
66	Electrocatalytic hydrodechlorination of 4-chlorophenol on Pd supported multi-walled carbon nanotubes particle electrodes. *Chemical Engineering Journal*, **2019**, 358, 903-911	14.7	54
65	Facile synthesis of InS/UiO-66 composite with enhanced adsorption performance and photocatalytic activity for the removal of tetracycline under visible light irradiation. *Journal of Colloid and Interface Science*, **2019**, 535, 444-457	9.3	83
64	Landfill leachate treatment by coagulation/flocculation combined with microelectrolysis-Fenton processes. *Environmental Technology (United Kingdom)*, **2019**, 40, 1862-1870	2.6	16

63	Simultaneously efficient adsorption and photocatalytic degradation of tetracycline by Fe-based MOFs. *Journal of Colloid and Interface Science*, **2018**, 519, 273-284	9.3	341
62	Enhanced short-chain fatty acids production from waste activated sludge by combining calcium peroxide with free ammonia pretreatment. *Bioresource Technology*, **2018**, 262, 114-123	11	69
61	Free ammonia enhances dark fermentative hydrogen production from waste activated sludge. *Water Research*, **2018**, 133, 272-281	12.5	117
60	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. *Water Research*, **2018**, 130, 281-290	12.5	112
59	Effect of acetate to glycerol ratio on enhanced biological phosphorus removal. *Chemosphere*, **2018**, 196, 78-86	8.4	39
58	Free ammonia-based sludge treatment reduces sludge production in the wastewater treatment process. *Chemosphere*, **2018**, 205, 484-492	8.4	30
57	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. *Chemical Engineering Journal*, **2018**, 348, 157-170	14.7	153
56	Novel stepwise pH control strategy to improve short chain fatty acid production from sludge anaerobic fermentation. *Bioresource Technology*, **2018**, 249, 431-438	11	51
55	Effectiveness and mechanisms of phosphate adsorption on iron-modified biochars derived from waste activated sludge. *Bioresource Technology*, **2018**, 247, 537-544	11	194
54	Improved methane production from waste activated sludge by combining free ammonia with heat pretreatment: Performance, mechanisms and applications. *Bioresource Technology*, **2018**, 268, 230-236	11	60
53	Feasibility of enhancing short-chain fatty acids production from waste activated sludge after free ammonia pretreatment: Role and significance of rhamnolipid. *Bioresource Technology*, **2018**, 267, 141-148	11	58
52	Highly-efficient degradation of amiloride by sulfate radicals-based photocatalytic processes: Reactive kinetics, degradation products and mechanism. *Chemical Engineering Journal*, **2018**, 354, 983-994	14.7	35
51	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. *Water Research*, **2018**, 145, 113-124	12.5	96
50	Perchlorate bioreduction linked to methane oxidation in a membrane biofilm reactor: Performance and microbial community structure. *Journal of Hazardous Materials*, **2018**, 357, 244-252	12.8	24
49	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	7.9	22
48	Role of free nitrous acid in the pretreatment of waste activated sludge: Extracellular polymeric substances disruption or cells lysis?. *Chemical Engineering Journal*, **2018**, 336, 28-37	14.7	52
47	Membrane-type smart metamaterials for multi-modal sound insulation. *Journal of the Acoustical Society of America*, **2018**, 144, 3514	2.2	2
46	Revealing the Underlying Mechanisms of How Initial pH Affects Waste Activated Sludge Solubilization and Dewaterability in Freezing and Thawing Process. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15822-15831	8.3	29

45	Clarifying the Role of Free Ammonia in the Production of Short-Chain Fatty Acids from Waste Activated Sludge Anaerobic Fermentation. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14104-14113	8.3	56
44	Sulfate radical induced degradation of Methyl Violet azo dye with CuFe layered doubled hydroxide as heterogeneous photoactivator of persulfate. *Journal of Environmental Management*, **2018**, 227, 406-414	7.9	47
43	Free ammonia-based pretreatment enhances phosphorus release and recovery from waste activated sludge. *Chemosphere*, **2018**, 213, 276-284	8.4	54
42	Free Ammonia-Based Pretreatment Promotes Short-Chain Fatty Acid Production from Waste Activated Sludge. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 9120-9129	8.3	54
41	Feasibility of enhancing short-chain fatty acids production from sludge anaerobic fermentation at free nitrous acid pretreatment: Role and significance of Tea saponin. *Bioresource Technology*, **2018**, 254, 194-202	11	65
40	How does free ammonia-based sludge pretreatment improve methane production from anaerobic digestion of waste activated sludge. *Chemosphere*, **2018**, 206, 491-501	8.4	39
39	Synergistic effect of free nitrite acid integrated with biosurfactant alkyl polyglucose on sludge anaerobic fermentation. *Waste Management*, **2018**, 78, 310-317	8.6	14
38	Is denitrifying anaerobic methane oxidation-centered technologies a solution for the sustainable operation of wastewater treatment Plants?. *Bioresource Technology*, **2017**, 234, 456-465	11	96
37	Wastewater Opportunities for Denitrifying Anaerobic Methane Oxidation. *Trends in Biotechnology*, **2017**, 35, 799-802	15.1	74
36	Heterogeneous activation of peroxymonosulfate by Fe-Co layered doubled hydroxide for efficient catalytic degradation of Rhoadmine B. *Chemical Engineering Journal*, **2017**, 321, 222-232	14.7	217
35	Approach of describing dynamic production of volatile fatty acids from sludge alkaline fermentation. *Bioresource Technology*, **2017**, 238, 343-351	11	64
34	Potential impact of salinity on methane production from food waste anaerobic digestion. *Waste Management*, **2017**, 67, 308-314	8.6	85
33	Enhanced visible-light-driven photocatalytic removal of refractory pollutants by Zn/Fe mixed metal oxide derived from layered double hydroxide. *Catalysis Communications*, **2017**, 99, 15-19	3.2	40
32	Visible-light photocatalytic degradation of multiple antibiotics by AgI nanoparticle-sensitized Bi5O7I microspheres: Enhanced interfacial charge transfer based on Z-scheme heterojunctions. *Journal of Catalysis*, **2017**, 352, 160-170	7.3	76
31	Novel ternary heterojunction photcocatalyst of Ag nanoparticles and g-C3N4 nanosheets co-modified BiVO4 for wider spectrum visible-light photocatalytic degradation of refractory pollutant. *Applied Catalysis B: Environmental*, **2017**, 205, 133-147	21.8	254
30	Nickel toxicity to the performance and microbial community of enhanced biological phosphorus removal system. *Chemical Engineering Journal*, **2017**, 313, 415-423	14.7	47
29	Triclocarban enhances short-chain fatty acids production from anaerobic fermentation of waste activated sludge. *Water Research*, **2017**, 127, 150-161	12.5	117
28	Aged refuse enhances anaerobic digestion of waste activated sludge. *Water Research*, **2017**, 123, 724-733	12.5	107

27	Photocatalytic degradation of perfluorooctanoic acid and perfluorooctane sulfonate in water: A critical review. *Chemical Engineering Journal*, **2017**, 328, 927-942	14.7	103
26	Evaluating the potential impact of hydrochar on the production of short-chain fatty acid from sludge anaerobic digestion. *Bioresource Technology*, **2017**, 246, 234-241	11	34
25	Understanding and mitigating the toxicity of cadmium to the anaerobic fermentation of waste activated sludge. *Water Research*, **2017**, 124, 269-279	12.5	126
24	Free nitrous acid-based nitrifying sludge treatment in a two-sludge system enhances nutrient removal from low-carbon wastewater. *Bioresource Technology*, **2017**, 244, 920-928	11	71
23	The behavior of melamine in biological wastewater treatment system. *Journal of Hazardous Materials*, **2017**, 322, 445-453	12.8	36
22	Simultaneous perchlorate and nitrate removal coupled with electricity generation in autotrophic denitrifying biocathode microbial fuel cell. *Chemical Engineering Journal*, **2017**, 308, 783-790	14.7	65
21	Effective adsorption/electrocatalytic degradation of perchlorate using Pd/Pt supported on N-doped activated carbon fiber cathode. *Journal of Hazardous Materials*, **2017**, 323, 602-610	12.8	41
20	Effect of nickel on the flocculability, settleability, and dewaterability of activated sludge. *Bioresource Technology*, **2017**, 224, 188-196	11	37
19	Enhanced visible light photocatalytic activity and mechanism of ZnSn(OH)6 nanocubes modified with AgI nanoparticles. *Catalysis Communications*, **2016**, 73, 1-6	3.2	59
18	Revealing the Underlying Mechanisms of How Sodium Chloride Affects Short-Chain Fatty Acid Production from the Cofermentation of Waste Activated Sludge and Food Waste. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 4675-4684	8.3	75
17	Combined Effect of Free Nitrous Acid Pretreatment and Sodium Dodecylbenzene Sulfonate on Short-Chain Fatty Acid Production from Waste Activated Sludge. *Scientific Reports*, **2016**, 6, 21622	4.9	23
16	Enhanced Photocatalytic Degradation of Tetracycline by AgI/BiVO Heterojunction under Visible-Light Irradiation: Mineralization Efficiency and Mechanism. *ACS Applied Materials & Interfaces*, **2016**, 8, 32887-32900	9.5	325
15	Self-assembly Z-scheme heterostructured photocatalyst of Ag2O@Ag-modified bismuth vanadate for efficient photocatalytic degradation of single and dual organic pollutants under visible light irradiation. *RSC Advances*, **2016**, 6, 60291-60307	3.7	32
14	Adsorptive Bromate Removal from Aqueous Solution by Commercial Strongly Basic Resin Impregnated with Hydrated Ferric Oxide (HFO): Kinetics and Equilibrium Studies. *Journal of Chemical & Engineering Data*, **2016**, 61, 1305-1312	2.8	22
13	Photo-reduction of bromate in drinking water by metallic Ag and reduced graphene oxide (RGO) jointly modified BiVO4 under visible light irradiation. *Water Research*, **2016**, 101, 555-563	12.5	147
12	Electrochemically induced pitting corrosion of Ti anode: Application to the indirect reduction of bromate. *Chemical Engineering Journal*, **2016**, 289, 114-122	14.7	15
11	An efficient and green pretreatment to stimulate short-chain fatty acids production from waste activated sludge anaerobic fermentation using free nitrous acid. *Chemosphere*, **2016**, 144, 160-7	8.4	105
10	Facile synthesis of visible-light-active BiOI modified Bi2MoO6 photocatalysts with highly enhanced photocatalytic activity. *Ceramics International*, **2016**, 42, 2515-2525	5.1	47

9	Enhanced dewaterability of waste activated sludge by Fe(II)-activated peroxymonosulfate oxidation. *Bioresource Technology*, **2016**, 206, 134-140	11	127
8	Promotion of ZnSn(OH)6 photoactivity by constructing heterojunction with Ag@Ag3PO4 nanoparticles: Visible light elimination of single or multiple dyes. *Catalysis Communications*, **2016**, 84, 137-141	3.2	11
7	Catalytic and electrocatalytic reduction of perchlorate in water □A review. *Chemical Engineering Journal*, **2016**, 306, 1081-1091	14.7	34
6	Free nitrous acid serving as a pretreatment method for alkaline fermentation to enhance short-chain fatty acid production from waste activated sludge. *Water Research*, **2015**, 78, 111-20	12.5	152
5	Plasmonic photocatalyst Ag@AgCl/ZnSn(OH)6: synthesis, characterization and enhanced visible-light photocatalytic activity in the decomposition of dyes and phenol. *RSC Advances*, **2015**, 5, 63152-63164	3.7	33
4	Effect of initial pH on short chain fatty acid production during the anaerobic fermentation of membrane bioreactor sludge enhanced by alkyl polyglcoside. *International Biodeterioration and Biodegradation*, **2015**, 104, 283-289	4.8	54
3	Evaluation of the feasibility of alcohols serving as external carbon sources for biological phosphorus removal induced by the oxic/extended-idle regime. *Biotechnology and Bioengineering*, **2013**, 110, 827-37	4.9	34
2	Novel insights into enzymatic-enhanced anaerobic digestion of waste activated sludge by three-dimensional excitation and emission matrix fluorescence spectroscopy. *Chemosphere*, **2013**, 91, 579-85	8.4	86
1	Improved biological phosphorus removal performance driven by the aerobic/extended-idle regime with propionate as the sole carbon source. *Water Research*, **2012**, 46, 3868-78	12.5	69