

# Zhu Xuefeng

## List of Publications by Year in descending order

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64  
papers

4,101  
citations

117625

34  
h-index

114465

63  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3623  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of pretreatment strategies for enhancing sewage sludge disintegration and subsequent anaerobic digestion: Current advances, full-scale application and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 559-577.	16.4	619
2	Sulfate radicals-based advanced oxidation technology in various environmental remediation: A state-of-the-art review. <i>Chemical Engineering Journal</i> , 2020, 402, 126232.	12.7	234
3	Enhanced dewaterability of sewage sludge in the presence of Fe(II)-activated persulfate oxidation. <i>Bioresource Technology</i> , 2012, 116, 259-265.	9.6	225
4	Unraveling the catalyzing behaviors of different iron species (Fe <sup>2+</sup> vs. Fe <sup>0</sup> ) in activating persulfate-based oxidation process with implications to waste activated sludge dewaterability. <i>Water Research</i> , 2018, 134, 101-114.	11.3	202
5	Combined electrical-alkali pretreatment to increase the anaerobic hydrolysis rate of waste activated sludge during anaerobic digestion. <i>Applied Energy</i> , 2014, 128, 93-102.	10.1	188
6	Synergetic pretreatment of waste activated sludge by Fe(II)-activated persulfate oxidation under mild temperature for enhanced dewaterability. <i>Bioresource Technology</i> , 2012, 124, 29-36.	9.6	163
7	Novel insights into enhanced dewaterability of waste activated sludge by Fe(II)-activated persulfate oxidation. <i>Bioresource Technology</i> , 2012, 119, 7-14.	9.6	158
8	Microbial electrolysis cell platform for simultaneous waste biorefinery and clean electrofuels generation: Current situation, challenges and future perspectives. <i>Progress in Energy and Combustion Science</i> , 2017, 63, 119-145.	31.2	137
9	Promoted electromethanogenesis in a two-chamber microbial electrolysis cells (MECs) containing a hybrid biocathode covered with graphite felt (GF). <i>Chemical Engineering Journal</i> , 2016, 284, 1146-1155.	12.7	119
10	Operation performance and granule characterization of upflow anaerobic sludge blanket (UASB) reactor treating wastewater with starch as the sole carbon source. <i>Bioresource Technology</i> , 2015, 180, 264-273.	9.6	116
11	Understanding methane bioelectrosynthesis from carbon dioxide in a two-chamber microbial electrolysis cells (MECs) containing a carbon biocathode. <i>Bioresource Technology</i> , 2015, 186, 141-148.	9.6	116
12	Anaerobic membrane bioreactor towards biowaste biorefinery and chemical energy harvest: Recent progress, membrane fouling and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109392.	16.4	103
13	Effect of influent COD/SO <sub>4</sub> <sup>2-</sup> ratios on biodegradation behaviors of starch wastewater in an upflow anaerobic sludge blanket (UASB) reactor. <i>Bioresource Technology</i> , 2016, 214, 175-183.	9.6	89
14	Electro-conversion of carbon dioxide (CO <sub>2</sub> ) to low-carbon methane by bioelectromethanogenesis process in microbial electrolysis cells: The current status and future perspective. <i>Bioresource Technology</i> , 2019, 279, 339-349.	9.6	88
15	Microbial electrochemical systems for sustainable biohydrogen production: Surveying the experiences from a start-up viewpoint. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 589-597.	16.4	79
16	Long-term effect of the antibiotic cefalexin on methane production during waste activated sludge anaerobic digestion. <i>Bioresource Technology</i> , 2014, 169, 644-651.	9.6	76
17	Synergistic effect and biodegradation kinetics of sewage sludge and food waste mesophilic anaerobic co-digestion and the underlying stimulation mechanisms. <i>Fuel</i> , 2019, 253, 40-49.	6.4	75
18	A comprehensive comparison of five different carbon-based cathode materials in CO <sub>2</sub> electromethanogenesis: Long-term performance, cell-electrode contact behaviors and extracellular electron transfer pathways. <i>Bioresource Technology</i> , 2018, 266, 382-388.	9.6	64

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19	White rot fungi pretreatment to advance volatile fatty acid production from solid-state fermentation of solid digestate: Efficiency and mechanisms. <i>Energy</i> , 2018, 162, 534-541.	8.8	64
20	Effective gel-like floc matrix destruction and water seepage for enhancing waste activated sludge dewaterability under hybrid microwave-initiated Fe(II)-persulfate oxidation process. <i>Chemosphere</i> , 2019, 221, 141-153.	8.2	62
21	Effects of calcined aluminum salts on the advanced dewatering and solidification/stabilization of sewage sludge. <i>Journal of Environmental Sciences</i> , 2011, 23, 1225-1232.	6.1	52
22	Characterization of membrane foulants in a full-scale membrane bioreactor for supermarket wastewater treatment. <i>Process Biochemistry</i> , 2011, 46, 1001-1009.	3.7	52
23	Biocatalysis conversion of methanol to methane in an upflow anaerobic sludge blanket (UASB) reactor: Long-term performance and inherent deficiencies. <i>Bioresource Technology</i> , 2015, 198, 691-700.	9.6	52
24	Mechanochemical treatment of Cr(VI) contaminated soil using a sodium sulfide coupled solidification/stabilization process. <i>Chemosphere</i> , 2018, 212, 540-547.	8.2	51
25	Response of morphology and microbial community structure of granules to influent COD/SO <sub>4</sub> <sup>2-</sup> ratios in an upflow anaerobic sludge blanket (UASB) reactor treating starch wastewater. <i>Bioresource Technology</i> , 2018, 256, 456-465.	9.6	48
26	Characterization of controlled low-strength material obtained from dewatered sludge and refuse incineration bottom ash: Mechanical and microstructural perspectives. <i>Journal of Environmental Management</i> , 2013, 129, 183-189.	7.8	44
27	Electrically regulating co-fermentation of sewage sludge and food waste towards promoting biomethane production and mass reduction. <i>Bioresource Technology</i> , 2019, 279, 218-227.	9.6	43
28	Mesophilic anaerobic digestion of thermally hydrolyzed sludge in anaerobic membrane bioreactor: Long-term performance, microbial community dynamics and membrane fouling mitigation. <i>Journal of Membrane Science</i> , 2020, 612, 118264.	8.2	42
29	Recovery of biohydrogen in a single-chamber microbial electrohydrogenesis cell using liquid fraction of pressed municipal solid waste (LPW) as substrate. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17896-17906.	7.1	41
30	Improvement in rare earth element recovery from waste trichromatic phosphors by mechanical activation. <i>Journal of Cleaner Production</i> , 2017, 151, 361-370.	9.3	41
31	Enhanced dewatering characteristics of waste activated sludge with Fenton pretreatment: effectiveness and statistical optimization. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 267-276.	6.0	38
32	Inhibitory effects of a shock load of Fe(II)-mediated persulfate oxidation on waste activated sludge anaerobic digestion. <i>Chemical Engineering Journal</i> , 2013, 233, 274-281.	12.7	36
33	Biomethane recovery from <i>Egeria densa</i> in a microbial electrolysis cell-assisted anaerobic system: Performance and stability assessment. <i>Chemosphere</i> , 2016, 149, 121-129.	8.2	36
34	Pyrolysis of pre-dried dewatered sewage sludge under different heating rates: Characteristics and kinetics study. <i>Fuel</i> , 2019, 255, 115591.	6.4	36
35	Novel methods of sewage sludge utilization for photocatalytic degradation of tetracycline-containing wastewater. <i>Fuel</i> , 2019, 252, 148-156.	6.4	35
36	Enzymatically-boosted ionic liquid gas separation membranes using carbonic anhydrase of biomass origin. <i>Chemical Engineering Journal</i> , 2016, 303, 621-626.	12.7	34

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37	Synthesis of novel laccase-biotitania biocatalysts for malachite green decolorization. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 69-77.	2.2	34
38	Continuous micro-current stimulation to upgrade methanolic wastewater biodegradation and biomethane recovery in an upflow anaerobic sludge blanket (UASB) reactor. <i>Chemosphere</i> , 2017, 180, 229-238.	8.2	33
39	The use of the core-shell structure of zero-valent iron nanoparticles (NZVI) for long-term removal of sulphide in sludge during anaerobic digestion. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 2013-2021.	3.5	31
40	Solid-state anaerobic fermentation of spent mushroom compost for volatile fatty acids production by pH regulation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18295-18300.	7.1	29
41	Strengthened dewaterability of coke-oven plant oily sludge by altering extracellular organics using Fe(II)-activated persulfate oxidation. <i>Science of the Total Environment</i> , 2019, 688, 1155-1161.	8.0	26
42	Long-term performance, membrane fouling behaviors and microbial community in a hollow fiber anaerobic membrane bioreactor (HF-AnMBR) treating synthetic terephthalic acid-containing wastewater. <i>Journal of Hazardous Materials</i> , 2022, 424, 127458.	12.4	23
43	Roles of colloidal particles and soluble biopolymers in long-term performance and fouling behaviors of submerged anaerobic membrane bioreactor treating methanolic wastewater. <i>Journal of Cleaner Production</i> , 2021, 290, 125816.	9.3	21
44	New insight into sludge digestion mechanism for simultaneous sludge thickening and reduction using flat-sheet membrane-coupled aerobic digesters. <i>Chemical Engineering Journal</i> , 2017, 309, 41-48.	12.7	20
45	Simultaneous photocatalytic and microbial degradation of dye-containing wastewater by a novel g-C <sub>3</sub> N <sub>4</sub> -P25/photosynthetic bacteria composite. <i>PLoS ONE</i> , 2017, 12, e0172747.	2.5	20
46	Simultaneous energy harvest and nitrogen removal using a supercapacitor microbial fuel cell. <i>Environmental Pollution</i> , 2020, 266, 115154.	7.5	19
47	Magnetite-enhanced bioelectrochemical stimulation for biodegradation and biomethane production of waste activated sludge. <i>Science of the Total Environment</i> , 2021, 789, 147859.	8.0	18
48	Does the combined free nitrous acid and electrochemical pretreatment increase methane productivity by provoking sludge solubilization and hydrolysis?. <i>Bioresource Technology</i> , 2020, 304, 123006.	9.6	16
49	Microbial mechanism underlying high methane production of coupled alkali-microwave-H <sub>2</sub> O <sub>2</sub> oxidation pretreated sewage sludge by in-situ bioelectrochemical regulation. <i>Journal of Cleaner Production</i> , 2021, 305, 127195.	9.3	16
50	Altering Extracellular Biopolymers and Water Distribution of Waste Activated Sludge by Fe(II) Persulfate Oxidation with Natural Zeolite and Polyelectrolyte as Skeleton Builders for Positive Feedbacks to Dewaterability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16549-16559.	6.7	15
51	Disordered mesoporous carbon activated peroxydisulfate pretreatment facilitates disintegration of extracellular polymeric substances and anaerobic bioconversion of waste activated sludge. <i>Bioresource Technology</i> , 2021, 339, 125547.	9.6	15
52	Anaerobic bioconversion of petrochemical wastewater to biomethane in a semi-continuous bioreactor: Biodegradability, mineralization behaviors and methane productivity. <i>Bioresource Technology</i> , 2020, 304, 123005.	9.6	14
53	Clarifying catalytic behaviors and electron transfer routes of electroactive biofilm during bioelectroconversion of CO <sub>2</sub> to CH <sub>4</sub> . <i>Fuel</i> , 2022, 310, 122450.	6.4	13
54	Mechanochemical immobilization of lead contaminated soil by ball milling with the additive of Ca(H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> . <i>Chemosphere</i> , 2020, 247, 125963.	8.2	12

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55	Temporal variations of membrane foulants in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. <i>Bioresource Technology</i> , 2011, 102, 6863-6869.	9.6	11
56	Bioelectrochemical regulation accelerates biomethane production from waste activated sludge: Focusing on operational performance and microbial community. <i>Science of the Total Environment</i> , 2022, 814, 152736.	8.0	11
57	The role of microbiome in carbon sequestration and environment security during wastewater treatment. <i>Science of the Total Environment</i> , 2022, 837, 155793.	8.0	9
58	Application of a CO <sub>2</sub> -stripping system for calcium removal to upgrade organic matter removal and sludge granulation in a leachate-fed EGSB bioreactor. <i>RSC Advances</i> , 2016, 6, 9286-9296.	3.6	8
59	Mechanistic insights into promoted dewaterability, drying behaviors and methane-producing potential of waste activated sludge by Fe <sup>2+</sup> -activated persulfate oxidation. <i>Journal of Environmental Management</i> , 2021, 298, 113429.	7.8	8
60	Semi-continuous anolyte circulation to strengthen CO <sub>2</sub> bioelectromethanosynthesis with complex organic matters as the e <sup>-</sup> /H <sup>+</sup> donor for simultaneous biowaste refinery. <i>Chemical Engineering Journal</i> , 2022, 430, 133123.	12.7	7
61	Unrevealing the role of in-situ Fe(II)/S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> oxidation in sludge solid-liquid separation and membrane fouling behaviors of membrane bioreactor (MBR). <i>Chemical Engineering Journal</i> , 2022, 434, 134666.	12.7	5
62	Effect of Worm Predation on Changes in Waste Activated Sludge Properties. <i>Water Environment Research</i> , 2016, 88, 387-393.	2.7	4
63	Implications for practical application of commercial reduced iron powders to activate aqueous sulfite for decontamination of organics. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	3
64	Comparison of alternative remediation technologies for recycled gravel contaminated with heavy metals. <i>Waste Management and Research</i> , 2015, 33, 1005-1014.	3.9	2