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	Semi-continuous anolyte circulation to strengthen CO2 bioelectromethanosynthesis with complex organic matters as the e-/H+ donor for simultaneous biowaste refinery. Chemical Engineering Journal, 2022, 430, 133123.	12.7	7
2	Long-term performance, membrane fouling behaviors and microbial community in a hollow fiber anaerobic membrane bioreactor (HF-AnMBR) treating synthetic terephthalic acid-containing wastewater. Journal of Hazardous Materials, 2022, 424, 127458.	12.4	23
3	Clarifying catalytic behaviors and electron transfer routes of electroactive biofilm during bioelectroconversion of CO2 to CH4. Fuel, 2022, 310, 122450.	6.4	13
4	Bioelectrochemical regulation accelerates biomethane production from waste activated sludge: Focusing on operational performance and microbial community. Science of the Total Environment, 2022, 814, 152736.	8.0	11
5	Unrevealing the role of in-situ Fe(II)/S2O82- oxidation in sludge solidâ€“liquid separation and membrane fouling behaviors of membrane bioreactor (MBR). Chemical Engineering Journal, 2022, 434, 134666.	12.7	5
6	The role of microbiome in carbon sequestration and environment security during wastewater treatment. Science of the Total Environment, 2022, 837, 155793.	8.0	9
7	Implications for practical application of commercial reduced iron powders to activate aqueous sulfite for decontamination of organics. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	3
8	Roles of colloidal particles and soluble biopolymers in long-term performance and fouling behaviors of submerged anaerobic membrane bioreactor treating methanolic wastewater. Journal of Cleaner Production, 2021, 290, 125816.	9.3	21
9	Microbial mechanism underlying high methane production of coupled alkali-microwaveâ€“H2O2â€“oxidation pretreated sewage sludge by in-situ bioelectrochemical regulation. Journal of Cleaner Production, 2021, 305, 127195.	9.3	16
10	Magnetite-enhanced bioelectrochemical stimulation for biodegradation and biomethane production of waste activated sludge. Science of the Total Environment, 2021, 789, 147859.	8.0	18
11	Disordered mesoporous carbon activated peroxydisulfate pretreatment facilitates disintegration of extracellular polymeric substances and anaerobic bioconversion of waste activated sludge. Bioresource Technology, 2021, 339, 125547.	9.6	15
12	Mechanistic insights into promoted dewaterability, drying behaviors and methane-producing potential of waste activated sludge by Fe2+-activated persulfate oxidation. Journal of Environmental Management, 2021, 298, 113429.	7.8	8
13	Sulfate radicals-based advanced oxidation technology in various environmental remediation: A state-of-theâ€“art review. Chemical Engineering Journal, 2020, 402, 126232.	12.7	234
14	Simultaneous energy harvest and nitrogen removal using a supercapacitor microbial fuel cell. Environmental Pollution, 2020, 266, 115154.	7.5	19
15	Mesophilic anaerobic digestion of thermally hydrolyzed sludge in anaerobic membrane bioreactor: Long-term performance, microbial community dynamics and membrane fouling mitigation. Journal of Membrane Science, 2020, 612, 118264.	8.2	42
16	Does the combined free nitrous acid and electrochemical pretreatment increase methane productivity by provoking sludge solubilization and hydrolysis?. Bioresource Technology, 2020, 304, 123006.	9.6	16
17	Anaerobic bioconversion of petrochemical wastewater to biomethane in a semi-continuous bioreactor: Biodegradability, mineralization behaviors and methane productivity. Bioresource Technology, 2020, 304, 123005.	9.6	14
18	Mechanochemical immobilization of lead contaminated soil by ball milling with the additive of Ca(H2PO4)2. Chemosphere, 2020, 247, 125963.	8.2	12

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19	Pyrolysis of pre-dried dewatered sewage sludge under different heating rates: Characteristics and kinetics study. Fuel, 2019, 255, 115591.	6.4	36
20	Strengthened dewaterability of coke-oven plant oily sludge by altering extracellular organics using Fe(II)-activated persulfate oxidation. Science of the Total Environment, 2019, 688, 1155-1161.	8.0	26
21	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. ACS Sustainable Chemistry and Engineering, 2019, 7, 16549-16559.	6.7	15
22	Anaerobic membrane bioreactor towards biowaste biorefinery and chemical energy harvest: Recent progress, membrane fouling and future perspectives. Renewable and Sustainable Energy Reviews, 2019, 115, 109392.	16.4	103
23	Electrically regulating co-fermentation of sewage sludge and food waste towards promoting biomethane production and mass reduction. Bioresource Technology, 2019, 279, 218-227.	9.6	43
24	Effective gel-like floc matrix destruction and water seepage for enhancing waste activated sludge dewaterability under hybrid microwave-initiated Fe(II)-persulfate oxidation process. Chemosphere, 2019, 221, 141-153.	8.2	62
25	Electro-conversion of carbon dioxide (CO2) to low-carbon methane by bioelectromethanogenesis process in microbial electrolysis cells: The current status and future perspective. Bioresource Technology, 2019, 279, 339-349.	9.6	88
26	Synergistic effect and biodegradation kinetics of sewage sludge and food waste mesophilic anaerobic co-digestion and the underlying stimulation mechanisms. Fuel, 2019, 253, 40-49.	6.4	75
27	Novel methods of sewage sludge utilization for photocatalytic degradation of tetracycline-containing wastewater. Fuel, 2019, 252, 148-156.	6.4	35
28	Response of morphology and microbial community structure of granules to influent COD/SO42â€¯â€“â€¯ratios in an upflow anaerobic sludge blanket (UASB) reactor treating starch wastewater. Bioresource Technology, 2018, 256, 456-465.	9.6	48
29	Unraveling the catalyzing behaviors of different iron species (Fe2+ vs. Fe0) in activating persulfate-based oxidation process with implications to waste activated sludge dewaterability. Water Research, 2018, 134, 101-114.	11.3	202
30	Synthesis of novel laccase-biotitania biocatalysts for malachite green decolorization. Journal of Bioscience and Bioengineering, 2018, 126, 69-77.	2.2	34
31	Mechanochemical treatment of Cr(VI) contaminated soil using a sodium sulfide coupled solidification/stabilization process. Chemosphere, 2018, 212, 540-547.	8.2	51
32	A comprehensive comparison of five different carbon-based cathode materials in CO2 electromethanogenesis: Long-term performance, cell-electrode contact behaviors and extracellular electron transfer pathways. Bioresource Technology, 2018, 266, 382-388.	9.6	64
33	White rot fungi pretreatment to advance volatile fatty acid production from solid-state fermentation of solid digestate: Efficiency and mechanisms. Energy, 2018, 162, 534-541.	8.8	64
34	Solid-state anaerobic fermentation of spent mushroom compost for volatile fatty acids production by pH regulation. International Journal of Hydrogen Energy, 2017, 42, 18295-18300.	7.1	29
35	Continuous micro-current stimulation to upgrade methanolic wastewater biodegradation and biomethane recovery in an upflow anaerobic sludge blanket (UASB) reactor. Chemosphere, 2017, 180, 229-238.	8.2	33
36	Improvement in rare earth element recovery from waste trichromatic phosphors by mechanical activation. Journal of Cleaner Production, 2017, 151, 361-370.	9.3	41

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37	Microbial electrochemical systems for sustainable biohydrogen production: Surveying the experiences from a start-up viewpoint. Renewable and Sustainable Energy Reviews, 2017, 70, 589-597.	16.4	79
38	Microbial electrolysis cell platform for simultaneous waste biorefinery and clean electrofuels generation: Current situation, challenges and future perspectives. Progress in Energy and Combustion Science, 2017, 63, 119-145.	31.2	137
39	New insight into sludge digestion mechanism for simultaneous sludge thickening and reduction using flat-sheet membrane-coupled aerobic digesters. Chemical Engineering Journal, 2017, 309, 41-48.	12.7	20
40	Overview of pretreatment strategies for enhancing sewage sludge disintegration and subsequent anaerobic digestion: Current advances, full-scale application and future perspectives. Renewable and Sustainable Energy Reviews, 2017, 69, 559-577.	16.4	619
41	Simultaneous photocatalytic and microbial degradation of dye-containing wastewater by a novel g-C3N4-P25/photosynthetic bacteria composite. PLoS ONE, 2017, 12, e0172747.	2.5	20
42	Effect of influent COD/SO42â˜ ratios on biodegradation behaviors of starch wastewater in an upflow anaerobic sludge blanket (UASB) reactor. Bioresource Technology, 2016, 214, 175-183.	9.6	89
43	Recovery of biohydrogen in a single-chamber microbial electrohydrogenesis cell using liquid fraction of pressed municipal solid waste (LPW) asÂsubstrate. International Journal of Hydrogen Energy, 2016, 41, 17896-17906.	7.1	41
44	Effect of Worm Predation on Changes in Waste Activated Sludge Properties. Water Environment Research, 2016, 88, 387-393.	2.7	4
45	Enzymatically-boosted ionic liquid gas separation membranes using carbonic anhydrase of biomass origin. Chemical Engineering Journal, 2016, 303, 621-626.	12.7	34
46	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. RSC Advances, 2016, 6, 9286-9296.	3.6	8
47	Biomethane recovery from Egeria densa in a microbial electrolysis cell-assisted anaerobic system: Performance and stability assessment. Chemosphere, 2016, 149, 121-129.	8.2	36
48	Promoted electromethanosynthesis in a two-chamber microbial electrolysis cells (MECs) containing a hybrid biocathode covered with graphite felt (GF). Chemical Engineering Journal, 2016, 284, 1146-1155.	12.7	119
49	The use of the coreâ€“shell structure of zero-valent iron nanoparticles (NZVI) for long-term removal of sulphide in sludge during anaerobic digestion. Environmental Sciences: Processes and Impacts, 2015, 17, 2013-2021.	3.5	31
50	Operation performance and granule characterization of upflow anaerobic sludge blanket (UASB) reactor treating wastewater with starch as the sole carbon source. Bioresource Technology, 2015, 180, 264-273.	9.6	116
51	Understanding methane bioelectrosynthesis from carbon dioxide in a two-chamber microbial electrolysis cells (MECs) containing a carbon biocathode. Bioresource Technology, 2015, 186, 141-148.	9.6	116
52	Biocatalysis conversion of methanol to methane in an upflow anaerobic sludge blanket (UASB) reactor: Long-term performance and inherent deficiencies. Bioresource Technology, 2015, 198, 691-700.	9.6	52
53	Comparison of alternative remediation technologies for recycled gravel contaminated with heavy metals. Waste Management and Research, 2015, 33, 1005-1014.	3.9	2
54	Enhanced dewatering characteristics of waste activated sludge with Fenton pretreatment: effectiveness and statistical optimization. Frontiers of Environmental Science and Engineering, 2014, 8, 267-276.	6.0	38

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55	Long-term effect of the antibiotic cefalexin on methane production during waste activated sludge anaerobic digestion. Bioresource Technology, 2014, 169, 644-651.	9.6	76
56	Combined electrical-alkali pretreatment to increase the anaerobic hydrolysis rate of waste activated sludge during anaerobic digestion. Applied Energy, 2014, 128, 93-102.	10.1	188
57	Inhibitory effects of a shock load of Fe(II)-mediated persulfate oxidation on waste activated sludge anaerobic digestion. Chemical Engineering Journal, 2013, 233, 274-281.	12.7	36
58	Characterization of controlled low-strength material obtained from dewatered sludge and refuse incineration bottom ash: Mechanical and microstructural perspectives. Journal of Environmental Management, 2013, 129, 183-189.	7.8	44
59	Enhanced dewaterability of sewage sludge in the presence of Fe(II)-activated persulfate oxidation. Bioresource Technology, 2012, 116, 259-265.	9.6	225
60	Novel insights into enhanced dewaterability of waste activated sludge by Fe(II)-activated persulfate oxidation. Bioresource Technology, 2012, 119, 7-14.	9.6	158
61	Synergetic pretreatment of waste activated sludge by Fe(II)â€“activated persulfate oxidation under mild temperature for enhanced dewaterability. Bioresource Technology, 2012, 124, 29-36.	9.6	163
62	Effects of calcined aluminum salts on the advanced dewatering and solidification/stabilization of sewage sludge. Journal of Environmental Sciences, 2011, 23, 1225-1232.	6.1	52
63	Temporal variations of membrane foulants in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. Bioresource Technology, 2011, 102, 6863-6869.	9.6	11
64	Characterization of membrane foulants in a full-scale membrane bioreactor for supermarket wastewater treatment. Process Biochemistry, 2011, 46, 1001-1009.	3.7	52