

Dezhi Sun

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

3,740
citations

117453

34
h-index

133063

59
g-index

84
all docs

84
docs citations

84
times ranked

3910
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of applying potentials on anaerobic digestion of high salinity organic wastewater. <i>Science of the Total Environment</i> , 2022, 822, 153416.	3.9	13
2	Ethylene dimethacrylate used as an NH ₃ adsorbent with high adsorption capacity and selectivity. <i>Chemosphere</i> , 2022, 293, 133539.	4.2	5
3	Enhancing nitrate removal efficiency of micro-sized zero-valent iron by chitosan gel balls encapsulating. <i>Science of the Total Environment</i> , 2022, 823, 153641.	3.9	12
4	Efficient nitrogen removal from leachate by coupling Anammox and sulfur-siderite-driven denitrification. <i>Science of the Total Environment</i> , 2022, 829, 154683.	3.9	14
5	Carbon cloth self-forming dynamic membrane enhances anaerobic removal of organic matter from incineration leachate via direct interspecies electron transfer. <i>Chemical Engineering Journal</i> , 2022, 445, 136732.	6.6	13
6	Novel insights into the interaction reactive components and synergistic fouling mechanisms of ultrafiltration by natural organic matter fractions and kaolin. <i>Environmental Research</i> , 2022, 212, 113285.	3.7	6
7	Conductive polyaniline hydrogel enhanced methane production from anaerobic wastewater treatment. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 314-322.	5.0	31
8	Occurrence and risk assessment of volatile halogenated disinfection by-products in an urban river supplied by reclaimed wastewater. <i>Ecotoxicology and Environmental Safety</i> , 2021, 211, 111912.	2.9	16
9	Emission characteristics and assessment of odors from sludge anaerobic digestion with thermal hydrolysis pretreatment in a wastewater treatment plant. <i>Environmental Pollution</i> , 2021, 274, 116516.	3.7	16
10	High efficiency in-situ biogas upgrading in a bioelectrochemical system with low energy input. <i>Water Research</i> , 2021, 197, 117055.	5.3	40
11	Estimation of in-situ biogas upgrading in microbial electrolysis cells via direct electron transfer: Two-stage machine learning modeling based on a NARX-BP hybrid neural network. <i>Bioresource Technology</i> , 2021, 330, 124965.	4.8	19
12	Enhanced ammonia adsorption and separation by a molecularly imprinted polymer after acid hydrolysis of its ester crosslinker. <i>Journal of Hazardous Materials</i> , 2021, 412, 125145.	6.5	17
13	Emission characteristics of odorous volatile sulfur compound from a full-scale sequencing batch reactor wastewater treatment plant. <i>Science of the Total Environment</i> , 2021, 776, 145991.	3.9	16
14	Enhanced recovery of nitrous oxide from incineration leachate in a microbial electrolysis cell inoculated with a nosZ-deficient strain of <i>Pseudomonas aeruginosa</i> . <i>Bioresource Technology</i> , 2021, 333, 125082.	4.8	4
15	Direct Observation of Electrically Conductive Pili Emanating from <i>Geobacter sulfurreducens</i> . <i>MBio</i> , 2021, 12, e0220921.	1.8	47
16	Identification of optimal parameters for treatment of high-strength ammonium leachate by mixed communities of heterotrophic nitrifying/aerobic denitrifying bacteria. <i>Bioresource Technology</i> , 2021, 336, 125415.	4.8	14
17	Preparation of sludge-based activated carbon for adsorption of dimethyl sulfide and dimethyl disulfide during sludge aerobic composting. <i>Chemosphere</i> , 2021, 279, 130924.	4.2	9
18	How do urban rainfall-runoff pollution control technologies develop in China? A systematic review based on bibliometric analysis and literature summary. <i>Science of the Total Environment</i> , 2021, 789, 148045.	3.9	23

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19	Volatile sulfur compound emissions and health risk assessment from an A2/O wastewater treatment plant. <i>Science of the Total Environment</i> , 2021, 794, 148741.	3.9	9
20	Residue metals and intrinsic moisture in excess sludge improve pore formation during its carbonization process. <i>Carbon</i> , 2020, 156, 320-328.	5.4	30
21	Efficient nitrous oxide recovery from incineration leachate by a nosZ-deficient strain of <i>Pseudomonas aeruginosa</i> . <i>Bioresource Technology</i> , 2020, 297, 122371.	4.8	7
22	Synthesis of ammonia molecularly imprinted adsorbents and ammonia adsorption separation during sludge aerobic composting. <i>Bioresource Technology</i> , 2020, 300, 122670.	4.8	25
23	Carbon cloth enhances treatment of high-strength brewery wastewater in anaerobic dynamic membrane bioreactors. <i>Bioresource Technology</i> , 2020, 298, 122547.	4.8	43
24	Applying potentials to conductive materials impairs High-loading anaerobic digestion performance by affecting direct interspecies electron transfer. <i>Bioresource Technology</i> , 2020, 297, 122422.	4.8	21
25	Enhancement of Bioelectrochemical CO ₂ Reduction with a Carbon Brush Electrode via Direct Electron Transfer. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11368-11375.	3.2	38
26	Magnetite enhances anaerobic digestion of high salinity organic wastewater. <i>Environmental Research</i> , 2020, 189, 109884.	3.7	40
27	Health impact of odor from on-situ sewage sludge aerobic composting throughout different seasons and during anaerobic digestion with hydrolysis pretreatment. <i>Chemosphere</i> , 2020, 249, 126077.	4.2	26
28	Effect of Al species of polyaluminum chlorides on floc breakage and re-growth process: Dynamic evolution of floc properties, dissolved organic matter and dissolved Al. <i>Chemosphere</i> , 2020, 249, 126449.	4.2	7
29	Occurrence and risk assessment of heavy metals in an urban river supplied by reclaimed wastewater. <i>Water Environment Research</i> , 2020, 92, 1888-1898.	1.3	8
30	Methanotrix enhances biogas upgrading in microbial electrolysis cell via direct electron transfer. <i>Bioresource Technology</i> , 2019, 291, 121877.	4.8	114
31	Cyanobacteria derived taste and odor characteristics in various lakes in China: Songhua Lake, Chaohu Lake and Taihu Lake. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 499-507.	2.9	33
32	Metagenomic analysis reveals that activated carbon aids anaerobic digestion of raw incineration leachate by promoting direct interspecies electron transfer. <i>Water Research</i> , 2019, 161, 570-580.	5.3	106
33	Odor assessment of NH ₃ and volatile sulfide compounds in a full-scale municipal sludge aerobic composting plant. <i>Bioresource Technology</i> , 2019, 282, 447-455.	4.8	49
34	Enhancing biotreatment of incineration leachate by applying an electric potential in a partial nitrification-Anammox system. <i>Bioresource Technology</i> , 2019, 285, 121311.	4.8	24
35	Intracellular Polymer Substances Induced Conductive Polyaniline for Improved Methane Production from Anaerobic Wastewater Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5912-5920.	3.2	96
36	Stimulation of anaerobic biofilm development in the presence of low concentrations of toxic aromatic pollutants. <i>Bioresource Technology</i> , 2019, 281, 26-30.	4.8	19

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37	Effective treatment of reverse osmosis concentrate from incineration leachate using direct contact membrane distillation coupled with a NaOH/PAM pre-treatment process. <i>Chemosphere</i> , 2019, 220, 195-203.	4.2	44
38	Ultrasonic Pretreated Sludge Derived Stable Magnetic Active Carbon for Cr(VI) Removal from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7283-7291.	3.2	190
39	Simultaneous Cr(VI) bio-reduction and methane production by anaerobic granular sludge. <i>Bioresource Technology</i> , 2018, 262, 15-21.	4.8	23
40	Trace analysis of 61 natural and synthetic progestins in river water and sewage effluents by ultra-high performance liquid chromatography-tandem mass spectrometry. <i>Water Research</i> , 2018, 133, 142-152.	5.3	43
41	Comparison of varying operating parameters on heavy metals ecological risk during anaerobic co-digestion of chicken manure and corn stover. <i>Bioresource Technology</i> , 2018, 247, 660-668.	4.8	50
42	Heterotrophic Nitrifiers Dominate Reactors Treating Incineration Leachate with High Free Ammonia Concentrations. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15040-15049.	3.2	34
43	Effects of ambient temperature and aeration frequency on emissions of ammonia and greenhouse gases from a sewage sludge aerobic composting plant. <i>Bioresource Technology</i> , 2018, 270, 457-466.	4.8	62
44	Emission characteristics of volatile sulfur compounds (VSCs) from a municipal sewage sludge aerobic composting plant. <i>Waste Management</i> , 2018, 77, 593-602.	3.7	38
45	Bacteria cell templated porous polyaniline facilitated detoxification and recovery of hexavalent chromium. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16824-16832.	5.2	93
46	Significant enhancement of nitrous oxide energy yields from wastewater achieved by bioaugmentation with a recombinant strain of <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2018, 8, 11916.	1.6	14
47	The effect of temperature shifts on N ₂ O and NO emissions from a partial nitrification reactor treating reject wastewater. <i>Chemosphere</i> , 2018, 212, 162-169.	4.2	11
48	Enhancing biomethanogenic treatment of fresh incineration leachate using single chambered microbial electrolysis cells. <i>Bioresource Technology</i> , 2017, 231, 129-137.	4.8	36
49	Impact of steel slag on the ammonium adsorption by zeolite and a new configuration of zeolite-steel slag substrate for constructed wetlands. <i>Water Science and Technology</i> , 2017, 76, 584-593.	1.2	8
50	Stimulation of the anaerobic digestion of the dry organic fraction of municipal solid waste (OFMSW) with carbon-based conductive materials. <i>Bioresource Technology</i> , 2017, 238, 30-38.	4.8	189
51	Mapping the scientific research on non-point source pollution: a bibliometric analysis. <i>Environmental Science and Pollution Research</i> , 2017, 24, 4352-4366.	2.7	32
52	Extracellular Polymeric Substances Induced Porous Polyaniline for Enhanced Cr(VI) Removal from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11788-11796.	3.2	46
53	Reduction and prediction of N ₂ O emission from an Anoxic/Oxic wastewater treatment plant upon DO control and model simulation. <i>Bioresource Technology</i> , 2017, 244, 800-809.	4.8	31
54	Effects of multiple inhibitory components on anaerobic treatment processes in municipal solid waste incineration leachate. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5123-5130.	1.7	14

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55	Enhancing anaerobic digestion of complex organic waste with carbon-based conductive materials. <i>Bioresource Technology</i> , 2016, 220, 516-522.	4.8	312
56	Impact of fulvic acids on bio-methanogenic treatment of municipal solid waste incineration leachate. <i>Water Research</i> , 2016, 106, 71-78.	5.3	86
57	Stimulation of methanogenesis in anaerobic digesters treating leachate from a municipal solid waste incineration plant with carbon cloth. <i>Bioresource Technology</i> , 2016, 222, 270-276.	4.8	182
58	Cerium doped red mud catalytic ozonation for bezafibrate degradation in wastewater: Efficiency, intermediates, and toxicity. <i>Chemosphere</i> , 2016, 146, 22-31.	4.2	44
59	Assessment of greenhouse gas emission from A/O and SBR wastewater treatment plants in Beijing, China. <i>International Biodeterioration and Biodegradation</i> , 2016, 108, 108-114.	1.9	65
60	Raising nutrients removal efficiency by improving the internal recycling strategy in an anoxic/oxic-membrane bioreactor package plant. <i>Desalination and Water Treatment</i> , 2016, 57, 10815-10825.	1.0	6
61	Formation characteristics of an anoxygenic photosynthetic bacterial biofilm in a photorotating biological contactor for azo dye wastewater treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 176-184.	1.6	11
62	Effective treatment of fermentation wastewater containing high concentration of sulfate by two-stage expanded granular sludge bed reactors. <i>International Biodeterioration and Biodegradation</i> , 2015, 104, 15-20.	1.9	18
63	Characteristics of direct CO ₂ emissions in four full-scale wastewater treatment plants. <i>Desalination and Water Treatment</i> , 2015, 54, 1070-1079.	1.0	36
64	Phosphorus precipitation in septic systems induced by iron reduction: a process for phosphorus removal under anaerobic conditions. <i>Desalination and Water Treatment</i> , 2015, 54, 2891-2901.	1.0	5
65	Dielectric properties and magnetoresistance behavior of polyaniline coated carbon fabrics. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3989-3998.	2.7	37
66	Cr(VI) removal by magnetic carbon nanocomposites derived from cellulose at different carbonization temperatures. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9817-9825.	5.2	116
67	Biotransformative removal of cationic Red X-GRL by anaerobic activated sludge. <i>RSC Advances</i> , 2015, 5, 25699-25707.	1.7	7
68	Inhibitory effect of high NH ₄ ⁺ -N concentration on anaerobic biotreatment of fresh leachate from a municipal solid waste incineration plant. <i>Waste Management</i> , 2015, 43, 188-195.	3.7	46
69	Adsorptive removal of phosphate from secondary effluents in WWTPs by ZnAl layered double hydroxides granules. <i>Desalination and Water Treatment</i> , 2015, 54, 1216-1225.	1.0	7
70	Cellulose derived magnetic mesoporous carbon nanocomposites with enhanced hexavalent chromium removal. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17454-17462.	5.2	167
71	Calcium effect on anaerobic biological treatment of fresh leachate with extreme high calcium concentration. <i>International Biodeterioration and Biodegradation</i> , 2014, 95, 76-83.	1.9	57
72	Polyaniline Coated Ethyl Cellulose with Improved Hexavalent Chromium Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2070-2080.	3.2	174

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73	Polyaniline coating on carbon fiber fabrics for improved hexavalent chromium removal. RSC Advances, 2014, 4, 29855.	1.7	118
74	Simultaneous nutrient and carbon removal from azo dye wastewater using a photorotating biological contactor reactor. Journal of Chemical Technology and Biotechnology, 2014, 89, 1545-1552.	1.6	13
75	Effective anaerobic treatment of fresh leachate from MSW incineration plant and dynamic characteristics of microbial community in granular sludge. Applied Microbiology and Biotechnology, 2013, 97, 10563-10574.	1.7	48
76	Formation of aldehyde during ozonation of taste and odour compounds in water. Journal of Water Supply: Research and Technology - AQUA, 2013, 62, 120-128.	0.6	8
77	Catalyzed Ozonation Decomposition of Taste and Odor-Causing Substances in Water and Simultaneous Control of Aldehyde Generation. Environmental Engineering Science, 2012, 29, 580-589.	0.8	7
78	Characterization of a compound bioflocculant produced by mixed culture of Rhizobium radiobacter F2 and Bacillus sphaeicus F6. World Journal of Microbiology and Biotechnology, 2011, 27, 2559-2565.	1.7	90
79	Treatment of fresh leachate with high-strength organics and calcium from municipal solid waste incineration plant using UASB reactor. Bioresource Technology, 2011, 102, 5498-5503.	4.8	96
80	Treatment of antibiotic fermentation wastewater using the combined polyferric sulfate coagulation with Fenton-like oxidation. Environmental Progress and Sustainable Energy, 2010, 29, 42-51.	1.3	8
81	Study on Roadside Air Pollution Caused by BTEX Compounds in Beijing. , 2010, , .		0
82	A simulation framework for water allocation to meet the environmental requirements of urban rivers: model development and a case study for the Liming River in Daqing City, China. Environmental Fluid Mechanics, 2008, 8, 333-347.	0.7	5