

Youcai Zhao

List of Publications by Year in descending order

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109
papers

5,397
citations

94433

37
h-index

88630

70
g-index

110
all docs

110
docs citations

110
times ranked

4780
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. Renewable and Sustainable Energy Reviews, 2017, 69, 559-577.	16.4	619
2	Microbial degradation and other environmental aspects of microplastics/plastics. Science of the Total Environment, 2020, 715, 136968.	8.0	392
3	Enhanced dewaterability of sewage sludge in the presence of Fe(II)-activated persulfate oxidation. Bioresource Technology, 2012, 116, 259-265.	9.6	225
4	Unraveling the catalyzing behaviors of different iron species (Fe ²⁺ vs. Fe ⁰) in activating persulfate-based oxidation process with implications to waste activated sludge dewaterability. Water Research, 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. Applied Energy, 2014, 128, 93-102.	10.1	188
6	Adsorption behavior of the antibiotic levofloxacin on microplastics in the presence of different heavy metals in an aqueous solution. Chemosphere, 2020, 260, 127650.	8.2	170
7	Synergetic pretreatment of waste activated sludge by Fe(II)-activated persulfate oxidation under mild temperature for enhanced dewaterability. Bioresource Technology, 2012, 124, 29-36.	9.6	163
8	Influence of zero valent scrap iron (ZVSI) supply on methane production from waste activated sludge. Chemical Engineering Journal, 2015, 263, 461-470.	12.7	160
9	Novel insights into enhanced dewaterability of waste activated sludge by Fe(II)-activated persulfate oxidation. Bioresource Technology, 2012, 119, 7-14.	9.6	158
10	Laboratory simulation of microplastics weathering and its adsorption behaviors in an aqueous environment: A systematic review. Environmental Pollution, 2020, 265, 114864.	7.5	151
11	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
12	Mesophilic anaerobic co-digestion of waste activated sludge and Egeria densa : Performance assessment and kinetic analysis. Applied Energy, 2015, 148, 78-86.	10.1	126
13	Stabilization of sewage sludge in the presence of nanoscale zero-valent iron (nZVI): abatement of odor and improvement of biogas production. Journal of Material Cycles and Waste Management, 2013, 15, 461-468.	3.0	118
14	Interfacial interaction between diverse microplastics and tetracycline by adsorption in an aqueous solution. Science of the Total Environment, 2020, 721, 137729.	8.0	115
15	Preparation and characterisation of activated carbon from waste tea by physical activation using steam. Journal of the Air and Waste Management Association, 2018, 68, 1269-1277.	1.9	107
16	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
17	Production of Zn powder by alkaline treatment of smithsonite Zn-Pb ores. Hydrometallurgy, 2000, 56, 237-249.	4.3	99
18	Synthesis composite hydrogels from inorganic-organic hybrids based on leftover rice for environment-friendly controlled-release urea fertilizers. Science of the Total Environment, 2018, 615, 422-430.	8.0	86

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19	Recycling of aged refuse from a closed landfill. Waste Management and Research, 2007, 25, 130-138.	3.9	84
20	Bio-hydrogen production from food waste and sewage sludge in the presence of aged refuse excavated from refuse landfill. Renewable Energy, 2008, 33, 2573-2579.	8.9	80
21	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
22	Public perceptions and economic values of source-separated collection of rural solid waste: A pilot study in China. Resources, Conservation and Recycling, 2016, 107, 166-173.	10.8	68
23	A comprehensive comparison of five different carbon-based cathode materials in CO ₂ electromethanogenesis: Long-term performance, cell-electrode contact behaviors and extracellular electron transfer pathways. Bioresource Technology, 2018, 266, 382-388.	9.6	64
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	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
26	Comparison of semi-aerobic and anaerobic degradation of refuse with recirculation after leachate treatment by aged refuse bioreactor. Waste Management, 2011, 31, 1202-1209.	7.4	51
27	A comprehensive overview of rural solid waste management in China. Frontiers of Environmental Science and Engineering, 2015, 9, 949-961.	6.0	49
28	Hydration process of the aluminate 12CaO·7Al ₂ O ₃ -assisted Portland cement-based solidification/stabilization of sewage sludge. Construction and Building Materials, 2012, 30, 675-681.	7.2	45
29	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
30	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
31	Production of zinc and lead concentrates from lean oxidized zinc ores by alkaline leaching followed by two-step precipitation using sulfides. Hydrometallurgy, 2011, 110, 79-84.	4.3	42
32	Characterization and environmental risk assessment of heavy metals in construction and demolition wastes from five sources (chemical, metallurgical and light industries, and residential and recycled) Tj ETQq0 0 0 rg8.3/Overlock 10 Tf 50	8.3	42
33	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
34	Three-stage aged refuse biofilter for the treatment of landfill leachate. Journal of Environmental Sciences, 2009, 21, 70-75.	6.1	41
35	The influence of sodium on biohydrogen production from food waste by anaerobic fermentation. Journal of Material Cycles and Waste Management, 2009, 11, 244-250.	3.0	40
36	Greenhouse gas emission inventories from waste sector in China during 1949â€“2013 and its mitigation potential. Journal of Cleaner Production, 2017, 157, 118-124.	9.3	40

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37	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
38	Acetic acid production from food wastes using yeast and acetic acid bacteria micro-aerobic fermentation. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 863-869.	3.4	38
39	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
40	Simultaneous remediation and fertility improvement of heavy metals contaminated soil by a novel composite hydrogel synthesized from food waste. <i>Chemosphere</i> , 2021, 275, 129984.	8.2	36
41	Estimation of municipal solid waste amount based on one-dimension convolutional neural network and long short-term memory with attention mechanism model: A case study of Shanghai. <i>Science of the Total Environment</i> , 2021, 791, 148088.	8.0	34
42	Comprehensive understanding the transition behaviors and mechanisms of chlorine and metal ions in municipal solid waste incineration fly ash during thermal treatment. <i>Science of the Total Environment</i> , 2022, 807, 150731.	8.0	34
43	Leachate treatment using a demonstration aged refuse biofilter. <i>Journal of Environmental Sciences</i> , 2010, 22, 1116-1122.	6.1	33
44	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
45	Consuming un-captured methane from landfill using aged refuse bio-cover. <i>Bioresource Technology</i> , 2011, 102, 2328-2332.	9.6	32
46	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
47	Treatment of sewage using an aged-refuse-based bioreactor. <i>Journal of Environmental Management</i> , 2007, 82, 32-38.	7.8	29
48	The contribution of biowaste disposal to odor emission from landfills. <i>Journal of the Air and Waste Management Association</i> , 2015, 65, 479-484.	1.9	29
49	Removal of Pb(II) from aqueous solutions using waste textiles/poly(acrylic acid) composite synthesized by radical polymerization technique. <i>Journal of Environmental Sciences</i> , 2018, 67, 368-377.	6.1	29
50	Nitrogen removal pathway of anaerobic ammonium oxidation in on-site aged refuse bioreactor. <i>Bioresource Technology</i> , 2014, 159, 266-271.	9.6	27
51	Environmental impacts of a large-scale incinerator with mixed MSW of high water content from a LCA perspective. <i>Journal of Environmental Sciences</i> , 2015, 30, 173-179.	6.1	27
52	Performance Appraisal of Controlled Low-strength Material Using Sewage Sludge and Refuse Incineration Bottom Ash. <i>Chinese Journal of Chemical Engineering</i> , 2012, 20, 80-88.	3.5	26
53	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
54	Fundamentals of Ornamental Plants in Removing Benzene in Indoor Air. <i>Atmosphere</i> , 2019, 10, 221.	2.3	24

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55	Use of an Aged-Refuse Biofilter for the Treatment of Feedlot Wastewaters. <i>Environmental Engineering Science</i> , 2004, 21, 349-360.	1.6	23
56	Effect of bio-column composed of aged refuse on methane abatement – A novel configuration of biological oxidation in refuse landfill. <i>Journal of Environmental Sciences</i> , 2010, 22, 769-776.	6.1	23
57	A novel waste-recycled chelating agent for the stabilization of lead in municipal solid waste incineration fly ash: Preparation, feasibility, and mechanism analysis. <i>Journal of Hazardous Materials</i> , 2022, 427, 127914.	12.4	22
58	Efficient Separation of Water-Soluble Humic Acid Using (3-Aminopropyl)triethoxysilane (APTES) for Carbon Resource Recovery from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5981-5989.	6.7	20
59	Methanotrophic community structure of aged refuse and its capability for methane bio-oxidation. <i>Journal of Environmental Sciences</i> , 2011, 23, 868-874.	6.1	19
60	Efficient treatment of mature landfill leachate with a novel composite biological trickle reactor developed using refractory domestic waste and aged refuse. <i>Journal of Cleaner Production</i> , 2021, 305, 127194.	9.3	19
61	Evaluation of extraction and purification methods for obtaining PCR-amplifiable DNA from aged refuse for microbial community analysis. <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 2043-2051.	3.6	18
62	A novel additional carbon source derived from rotten fruits: Application for the denitrification from mature landfill leachate and evaluation the economic benefits. <i>Bioresource Technology</i> , 2021, 334, 125244.	9.6	18
63	Reclamation of heavy metals from contaminated soil using organic acid liquid generated from food waste: removal of Cd, Cu, and Zn, and soil fertility improvement. <i>Environmental Science and Pollution Research</i> , 2017, 24, 15260-15269.	5.3	17
64	Pyrolytic characteristics of fine materials from municipal solid waste using TG-FTIR, Py-GC/MS, and deep learning approach: Kinetics, thermodynamics, and gaseous products distribution. <i>Chemosphere</i> , 2022, 293, 133533.	8.2	16
65	Co-inhibition of methanogens for methane mitigation in biodegradable wastes. <i>Journal of Environmental Sciences</i> , 2009, 21, 827-833.	6.1	15
66	Novel engineering controls to increase leachate contaminant degradation by refuse: From lab test to in situ engineering application. <i>Ecological Engineering</i> , 2011, 37, 1914-1919.	3.6	15
67	Chemical reduction of odour in fresh sewage sludge in the presence of ferric hydroxide. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 165-172.	2.2	15
68	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
69	Landfill Refuse Stabilization Process Characterized by Nutrient Change. <i>Environmental Engineering Science</i> , 2009, 26, 1655-1660.	1.6	14
70	NaHCO ₃ -enhanced sewage sludge thin-layer drying: Drying characteristics and kinetics. <i>Drying Technology</i> , 2017, 35, 1276-1287.	3.1	14
71	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
72	Pollution of hazardous substances in industrial construction and demolition wastes and their multi-path risk within an abandoned pesticide manufacturing plant. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	6.0	13

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73	A laboratory study on stabilization criteria of semi-aerobic landfill. Waste Management and Research, 2008, 26, 566-572.	3.9	12
74	Waste plastic resource recovery from landfilled refuse: A novel waterless cleaning method and its cost-benefit analysis. Journal of Environmental Management, 2022, 306, 114462.	7.8	12
75	Comprehensive understanding the emission characteristics and kinetics of VOCs from automotive waste paint sludge in a environmental test chamber. Journal of Hazardous Materials, 2022, 429, 128387.	12.4	12
76	Leachate recirculation between alternating aged refuse bioreactors and its effect on refuse decomposition. Environmental Technology (United Kingdom), 2014, 35, 799-807.	2.2	11
77	Greenhouse gas emission and its potential mitigation process from the waste sector in a large-scale exhibition. Journal of Environmental Sciences, 2015, 31, 44-50.	6.1	11
78	Distribution pattern and the risks of OPCs, PHAs and PCBs in aged refuses from landfill. Waste Management, 2016, 55, 330-335.	7.4	11
79	Innovative Integrated Technique for Nutrient Acquisition: Simultaneous Recovery of Carbon and Nitrogen Sources from the Anaerobic Fermentation Liquid of Food Waste. ACS Sustainable Chemistry and Engineering, 2018, 6, 10944-10951.	6.7	11
80	Dissolved organic matter (DOM) was detected in MSWI plant: An investigation of DOM and potential toxic elements variation in the bottom ash and fly ash. Science of the Total Environment, 2022, 828, 154339.	8.0	11
81	Influence of cetyltrimethylammonium bromide and sodium lauryl sulfate on production of zinc powders by alkaline electrowinning. Russian Journal of Non-Ferrous Metals, 2014, 55, 65-72.	0.6	10
82	Spatial distribution of organic pollutants in industrial construction and demolition waste and their mutual interaction on an abandoned pesticide manufacturing plant. Environmental Sciences: Processes and Impacts, 2016, 18, 482-492.	3.5	10
83	Statistical Key Factor Optimization of Conditions for Biohydrogen Production from Sewage Sludge and Food Waste by Anaerobic Codigestion. Energy & Fuels, 2019, 33, 11163-11172.	5.1	10
84	Characterization and Risk Assessment of Particulate Matter and Volatile Organic Compounds in Metro Carriage in Shanghai, China. Atmosphere, 2019, 10, 302.	2.3	10
85	Efficient capture of aqueous humic acid using a functionalized stereoscopic porous activated carbon based on poly(acrylic acid)/food-waste hydrogel. Journal of Environmental Sciences, 2019, 77, 104-114.	6.1	9
86	How to predict emissions of volatile organic compounds from solid building materials? A critical review on mass transfer models. Journal of Environmental Management, 2022, 302, 114054.	7.8	9
87	Recovering of Zinc from Solid Waste Bearing Sphalerite or Zinc Ferrite by Mechano-Chemical Extraction in Alkaline Solution. Procedia Environmental Sciences, 2012, 16, 786-790.	1.4	8
88	Molten hydroxide for detoxification of chlorine-containing waste: Unraveling chlorine retention efficiency and chlorine salt enrichment. Journal of Environmental Sciences, 2019, 82, 192-202.	6.1	8
89	Mechanistic insights into promoted dewaterability, drying behaviors and methane-producing potential of waste activated sludge by Fe ²⁺ -activated persulfate oxidation. Journal of Environmental Management, 2021, 298, 113429.	7.8	8
90	Sewage denitrification performance and sludge properties variation with the addition of liquid from perishable organic anaerobic fermentation. Bioresource Technology, 2021, 341, 125821.	9.6	8

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91	Title is missing!. Water, Air, and Soil Pollution, 1998, 102, 157-176.	2.4	7
92	Field assessment of stratified aged-refuse-based reactor for landfill leachate treatment. Waste Management and Research, 2011, 29, 1294-1302.	3.9	7
93	Assessment and analysis of aged refuse as ammonium-removal media for the treatment of landfill leachate. Waste Management and Research, 2017, 35, 1168-1174.	3.9	7
94	Decomposition characteristics of humic-like matters with the hollow ellipsoid structure sludge inoculated from decayed soil in mature landfill leachate. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overclock 10 5f 50 617 T		
95	Designing an in situ remediation strategy for polluted surface water bodies through the specific regulation of microbial community. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	6.0	5
96	Indicating landfill stabilization state by using leachate property from Laogang Refuse Landfill. Frontiers of Environmental Science and Engineering, 2014, 8, 405-410.	6.0	4
97	Bio-oxidation of Escape Methane from Landfill Using Leachate-Modified Aged Refuse. Arabian Journal for Science and Engineering, 2016, 41, 2493-2500.	1.1	4
98	Source-Separated Collection of Rural Solid Waste in China. Handbook of Environmental Chemistry, 2017, , 151-174.	0.4	4
99	Simultaneous annihilation of microorganisms and volatile organic compounds from municipal solid waste storage rooms with slightly acidic electrolyzed water. Journal of Environmental Management, 2021, 297, 113414.	7.8	4
100	STABILIZATION OF HEAVY METALS IN SEWAGE SLUDGE USING SOREL CEMENT. , 2009, , .		3
101	Evolution processes of trace metal speciation in leachates with different ages from Laogang Refuse Landfill, Shanghai. Desalination and Water Treatment, 2016, 57, 8583-8590.	1.0	3
102	Regeneration and purification of spent electrolyte from sodium hydroxide zinc metallurgy using causticisation. Hydrometallurgy, 2014, 144-145, 107-113.	4.3	2
103	Comparison of alternative remediation technologies for recycled gravel contaminated with heavy metals. Waste Management and Research, 2015, 33, 1005-1014.	3.9	2
104	Dechlorination and conversion mechanism of trichlorobenzene as a model compound of chlorine-containing wastes by different base-catalyzed combinations. Environmental Science and Pollution Research, 2019, 26, 9480-9489.	5.3	2
105	A Process for the Production of Zn Powder by Alkaline Treatment of Brass Smelting Ash at Industrial Scale. , 2009, , .		1
106	Removal of Tin from Alkaline Zinc Solution by Zinc Powder Cementation. , 2010, , .		1
107	Study on Biomethane Inhibition Using Response Surface Methodology. , 2009, , .		0
108	Notice of Retraction: Study on Influences of Mixed Methanotrophs Agent on the Methane Oxidation Capacity of Landfill Cover Materials. , 2011, , .		0

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109	Enhanced volatile fatty acid production from food waste via anaerobic fermentation: effect of irons with different sizes. Environmental Technology (United Kingdom), 2024, 45, 50-60.	2.2	0