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	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
2	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
3	Comprehensive understanding the transition behaviors and mechanisms of chlorine and metal ions in municipal solid waste incineration fly ash during thermal treatment. Science of the Total Environment, 2022, 807, 150731.	8.0	34
4	A novel waste-recycled chelating agent for the stabilization of lead in municipal solid waste incineration fly ash: Preparation, feasibility, and mechanism analysis. Journal of Hazardous Materials, 2022, 427, 127914.	12.4	22
5	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. Chemosphere, 2022, 293, 133533.	8.2	16
6	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
7	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
8	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
9	Simultaneous remediation and fertility improvement of heavy metals contaminated soil by a novel composite hydrogel synthesized from food waste. Chemosphere, 2021, 275, 129984.	8.2	36
10	Efficient treatment of mature landfill leachate with a novel composite biological trickle reactor developed using refractory domestic waste and aged refuse. Journal of Cleaner Production, 2021, 305, 127194.	9.3	19
11	A novel additional carbon source derived from rotten fruits: Application for the denitrification from mature landfill leachate and evaluation the economic benefits. Bioresource Technology, 2021, 334, 125244.	9.6	18
12	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. Science of the Total Environment, 2021, 791, 148088.	8.0	34
13	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
14	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
15	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
16	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
17	Laboratory simulation of microplastics weathering and its adsorption behaviors in an aqueous environment: A systematic review. Environmental Pollution, 2020, 265, 114864.	7.5	151
18	Interfacial interaction between diverse microplastics and tetracycline by adsorption in an aqueous solution. Science of the Total Environment, 2020, 721, 137729.	8.0	115

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19	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
20	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
21	Microbial degradation and other environmental aspects of microplastics/plastics. Science of the Total Environment, 2020, 715, 136968.	8.0	392
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	Characterization and Risk Assessment of Particulate Matter and Volatile Organic Compounds in Metro Carriage in Shanghai, China. Atmosphere, 2019, 10, 302.	2.3	10
30	Fundamentals of Ornamental Plants in Removing Benzene in Indoor Air. Atmosphere, 2019, 10, 221.	2.3	24
31	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
32	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
33	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
34	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
35	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
36	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

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37	Efficient Separation of Water-Soluble Humic Acid Using (3-Aminopropyl)triethoxysilane (APTES) for Carbon Resource Recovery from Wastewater. ACS Sustainable Chemistry and Engineering, 2018, 6, 5981-5989.	6.7	20
38	Removal of Pb(II) from aqueous solutions using waste textiles/poly(acrylic acid) composite synthesized by radical polymerization technique. Journal of Environmental Sciences, 2018, 67, 368-377.	6.1	29
39	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
40	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
41	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
42	Pollution of hazardous substances in industrial construction and demolition wastes and their multi-path risk within an abandoned pesticide manufacturing plant. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	6.0	13
43	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
44	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. Environmental Science and Pollution Research, 2017, 24, 15260-15269.	5.3	17
45	NaHCO₃-enhanced sewage sludge thin-layer drying: Drying characteristics and kinetics. Drying Technology, 2017, 35, 1276-1287.	3.1	14
46	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
47	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
48	Source-Separated Collection of Rural Solid Waste in China. Handbook of Environmental Chemistry, 2017, , 151-174.	0.4	4
49	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
50	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
51	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
52	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
53	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
54	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

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55	Distribution pattern and the risks of OPCs, PHAs and PCBs in aged refuses from landfill. Waste Management, 2016, 55, 330-335.	7.4	11
56	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 /Overlock 10 Tf 50 697 T	2.2	5
57	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
58	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
59	Environmental impacts of a large-scale incinerator with mixed MSW of high water content from a LCA perspective. Journal of Environmental Sciences, 2015, 30, 173-179.	6.1	27
60	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 rgBT /Overlock 10 Tf 50	3.3	42
61	Acetic acid production from food wastes using yeast and acetic acid bacteria micro-aerobic fermentation. Bioprocess and Biosystems Engineering, 2015, 38, 863-869.	3.4	38
62	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
63	The contribution of biowaste disposal to odor emission from landfills. Journal of the Air and Waste Management Association, 2015, 65, 479-484.	1.9	29
64	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
65	Comparison of alternative remediation technologies for recycled gravel contaminated with heavy metals. Waste Management and Research, 2015, 33, 1005-1014.	3.9	2
66	A comprehensive overview of rural solid waste management in China. Frontiers of Environmental Science and Engineering, 2015, 9, 949-961.	6.0	49
67	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
68	Regeneration and purification of spent electrolyte from sodium hydroxide zinc metallurgy using causticisation. Hydrometallurgy, 2014, 144-145, 107-113.	4.3	2
69	Leachate recirculation between alternating aged refuse bioreactors and its effect on refuse decomposition. Environmental Technology (United Kingdom), 2014, 35, 799-807.	2.2	11
70	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
71	Nitrogen removal pathway of anaerobic ammonium oxidation in on-site aged refuse bioreactor. Bioresource Technology, 2014, 159, 266-271.	9.6	27
72	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

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73	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
74	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
75	Chemical reduction of odour in fresh sewage sludge in the presence of ferric hydroxide. Environmental Technology (United Kingdom), 2013, 34, 165-172.	2.2	15
76	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
77	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
78	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
79	Enhanced dewaterability of sewage sludge in the presence of Fe(II)-activated persulfate oxidation. Bioresource Technology, 2012, 116, 259-265.	9.6	225
80	Novel insights into enhanced dewaterability of waste activated sludge by Fe(II)-activated persulfate oxidation. Bioresource Technology, 2012, 119, 7-14.	9.6	158
81	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
82	Hydration process of the aluminate 12CaOâ‹…7Al2O3-assisted Portland cement-based solidification/stabilization of sewage sludge. Construction and Building Materials, 2012, 30, 675-681.	7.2	45
83	Performance Appraisal of Controlled Low-strength Material Using Sewage Sludge and Refuse Incineration Bottom Ash. Chinese Journal of Chemical Engineering, 2012, 20, 80-88.	3.5	26
84	Field assessment of stratified aged-refuse-based reactor for landfill leachate treatment. Waste Management and Research, 2011, 29, 1294-1302.	3.9	7
85	Novel engineering controls to increase leachate contaminant degradation by refuse: From lab test to in situ engineering application. Ecological Engineering, 2011, 37, 1914-1919.	3.6	15
86	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
87	Methanotrophic community structure of aged refuse and its capability for methane bio-oxidation. Journal of Environmental Sciences, 2011, 23, 868-874.	6.1	19
88	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
89	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
90	Consuming un-captured methane from landfill using aged refuse bio-cover. Bioresource Technology, 2011, 102, 2328-2332.	9.6	32

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91	Notice of Retraction: Study on Influences of Mixed Methanotrophs Agent on the Methane Oxidation Capacity of Landfill Cover Materials. , 2011, , .		0
92	Effect of bio-column composed of aged refuse on methane abatement â€“ A novel configuration of biological oxidation in refuse landfill. Journal of Environmental Sciences, 2010, 22, 769-776.	6.1	23
93	Leachate treatment using a demonstration aged refuse biofilter. Journal of Environmental Sciences, 2010, 22, 1116-1122.	6.1	33
94	Removal of Tin from Alkaline Zinc Solution by Zinc Powder Cementation. , 2010, , .		1
95	Study on Biomethane Inhibition Using Response Surface Methodology. , 2009, , .		0
96	Landfill Refuse Stabilization Process Characterized by Nutrient Change. Environmental Engineering Science, 2009, 26, 1655-1660.	1.6	14
97	Co-inhibition of methanogens for methane mitigation in biodegradable wastes. Journal of Environmental Sciences, 2009, 21, 827-833.	6.1	15
98	Three-stage aged refuse biofilter for the treatment of landfill leachate. Journal of Environmental Sciences, 2009, 21, 70-75.	6.1	41
99	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
100	Evaluation of extraction and purification methods for obtaining PCR-amplifiable DNA from aged refuse for microbial community analysis. World Journal of Microbiology and Biotechnology, 2009, 25, 2043-2051.	3.6	18
101	A Process for the Production of Zn Powder by Alkaline Treatment of Brass Smelting Ash at Industrial Scale. , 2009, , .		1
102	STABILIZATION OF HEAVY METALS IN SEWAGE SLUDGE USING SOREL CEMENT. , 2009, , .		3
103	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
104	A laboratory study on stabilization criteria of semi-aerobic landfill. Waste Management and Research, 2008, 26, 566-572.	3.9	12
105	Recycling of aged refuse from a closed landfill. Waste Management and Research, 2007, 25, 130-138.	3.9	84
106	Treatment of sewage using an aged-refuse-based bioreactor. Journal of Environmental Management, 2007, 82, 32-38.	7.8	29
107	Use of an Aged-Refuse Biofilter for the Treatment of Feedlot Wastewaters. Environmental Engineering Science, 2004, 21, 349-360.	1.6	23
108	Production of Zn powder by alkaline treatment of smithsonite Znâ€“Pb ores. Hydrometallurgy, 2000, 56, 237-249.	4.3	99

#	Article	IF	Citations
109	Title is missing!. Water, Air, and Soil Pollution, 1998, 102, 157-176.	2.4	7