

# Youcai Zhao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11432849/publications.pdf>

Version: 2024-02-01

109  
papers

5,397  
citations

108046

37  
h-index

100535

70  
g-index

110  
all docs

110  
docs citations

110  
times ranked

5329  
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.	8.2	619
2	Microbial degradation and other environmental aspects of microplastics/plastics. <i>Science of the Total Environment</i> , 2020, 715, 136968.	3.9	392
3	Enhanced dewaterability of sewage sludge in the presence of Fe(II)-activated persulfate oxidation. <i>Bioresource Technology</i> , 2012, 116, 259-265.	4.8	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.	5.3	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.	5.1	188
6	Adsorption behavior of the antibiotic levofloxacin on microplastics in the presence of different heavy metals in an aqueous solution. <i>Chemosphere</i> , 2020, 260, 127650.	4.2	170
7	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.	4.8	163
8	Influence of zero valent scrap iron (ZVSI) supply on methane production from waste activated sludge. <i>Chemical Engineering Journal</i> , 2015, 263, 461-470.	6.6	160
9	Novel insights into enhanced dewaterability of waste activated sludge by Fe(II)-activated persulfate oxidation. <i>Bioresource Technology</i> , 2012, 119, 7-14.	4.8	158
10	Laboratory simulation of microplastics weathering and its adsorption behaviors in an aqueous environment: A systematic review. <i>Environmental Pollution</i> , 2020, 265, 114864.	3.7	151
11	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.	15.8	137
12	Mesophilic anaerobic co-digestion of waste activated sludge and <i>Egeria densa</i> : Performance assessment and kinetic analysis. <i>Applied Energy</i> , 2015, 148, 78-86.	5.1	126
13	Stabilization of sewage sludge in the presence of nanoscale zero-valent iron (nZVI): abatement of odor and improvement of biogas production. <i>Journal of Material Cycles and Waste Management</i> , 2013, 15, 461-468.	1.6	118
14	Interfacial interaction between diverse microplastics and tetracycline by adsorption in an aqueous solution. <i>Science of the Total Environment</i> , 2020, 721, 137729.	3.9	115
15	Preparation and characterisation of activated carbon from waste tea by physical activation using steam. <i>Journal of the Air and Waste Management Association</i> , 2018, 68, 1269-1277.	0.9	107
16	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.	8.2	103
17	Production of Zn powder by alkaline treatment of smithsonite Zn <sup>2+</sup> -Pb ores. <i>Hydrometallurgy</i> , 2000, 56, 237-249.	1.8	99
18	Synthesis composite hydrogels from inorganic-organic hybrids based on leftover rice for environment-friendly controlled-release urea fertilizers. <i>Science of the Total Environment</i> , 2018, 615, 422-430.	3.9	86

#	ARTICLE	IF	CITATIONS
19	Recycling of aged refuse from a closed landfill. <i>Waste Management and Research</i> , 2007, 25, 130-138.	2.2	84
20	Bio-hydrogen production from food waste and sewage sludge in the presence of aged refuse excavated from refuse landfill. <i>Renewable Energy</i> , 2008, 33, 2573-2579.	4.3	80
21	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.	3.4	75
22	Public perceptions and economic values of source-separated collection of rural solid waste: A pilot study in China. <i>Resources, Conservation and Recycling</i> , 2016, 107, 166-173.	5.3	68
23	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.	4.8	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. <i>Chemosphere</i> , 2019, 221, 141-153.	4.2	62
25	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.	3.2	52
26	Comparison of semi-aerobic and anaerobic degradation of refuse with recirculation after leachate treatment by aged refuse bioreactor. <i>Waste Management</i> , 2011, 31, 1202-1209.	3.7	51
27	A comprehensive overview of rural solid waste management in China. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 949-961.	3.3	49
28	Hydration process of the aluminate 12CaO·7Al <sub>2</sub> O <sub>3</sub> -assisted Portland cement-based solidification/stabilization of sewage sludge. <i>Construction and Building Materials</i> , 2012, 30, 675-681.	3.2	45
29	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.	3.8	44
30	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.	4.8	43
31	Production of zinc and lead concentrates from lean oxidized zinc ores by alkaline leaching followed by two-step precipitation using sulfides. <i>Hydrometallurgy</i> , 2011, 110, 79-84.	1.8	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) <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50</i>		
33	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.	4.1	42
34	Three-stage aged refuse biofilter for the treatment of landfill leachate. <i>Journal of Environmental Sciences</i> , 2009, 21, 70-75.	3.2	41
35	The influence of sodium on biohydrogen production from food waste by anaerobic fermentation. <i>Journal of Material Cycles and Waste Management</i> , 2009, 11, 244-250.	1.6	40
36	Greenhouse gas emission inventories from waste sector in China during 1949-2013 and its mitigation potential. <i>Journal of Cleaner Production</i> , 2017, 157, 118-124.	4.6	40

#	ARTICLE	IF	CITATIONS
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.	3.3	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.	1.7	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.	6.6	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.	4.2	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.	3.9	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.	3.9	34
43	Leachate treatment using a demonstration aged refuse biofilter. <i>Journal of Environmental Sciences</i> , 2010, 22, 1116-1122.	3.2	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.	4.2	33
45	Consuming un-captured methane from landfill using aged refuse bio-cover. <i>Bioresource Technology</i> , 2011, 102, 2328-2332.	4.8	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.	1.7	31
47	Treatment of sewage using an aged-refuse-based bioreactor. <i>Journal of Environmental Management</i> , 2007, 82, 32-38.	3.8	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.	0.9	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.	3.2	29
50	Nitrogen removal pathway of anaerobic ammonium oxidation in on-site aged refuse bioreactor. <i>Bioresource Technology</i> , 2014, 159, 266-271.	4.8	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.	3.2	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.	1.7	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.	3.9	26
54	Fundamentals of Ornamental Plants in Removing Benzene in Indoor Air. <i>Atmosphere</i> , 2019, 10, 221.	1.0	24

#	ARTICLE	IF	CITATIONS
55	Use of an Aged-Refuse Biofilter for the Treatment of Feedlot Wastewaters. <i>Environmental Engineering Science</i> , 2004, 21, 349-360.	0.8	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.	3.2	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.	6.5	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.	3.2	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.	3.2	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.	4.6	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.	1.7	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.	4.8	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.	2.7	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.	4.2	16
65	Co-inhibition of methanogens for methane mitigation in biodegradable wastes. <i>Journal of Environmental Sciences</i> , 2009, 21, 827-833.	3.2	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.	1.6	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.	1.2	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.	3.2	15
69	Landfill Refuse Stabilization Process Characterized by Nutrient Change. <i>Environmental Engineering Science</i> , 2009, 26, 1655-1660.	0.8	14
70	NaHCO <sub>3</sub> -enhanced sewage sludge thin-layer drying: Drying characteristics and kinetics. <i>Drying Technology</i> , 2017, 35, 1276-1287.	1.7	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.	4.8	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.	3.3	13

#	ARTICLE	IF	CITATIONS
73	A laboratory study on stabilization criteria of semi-aerobic landfill. <i>Waste Management and Research</i> , 2008, 26, 566-572.	2.2	12
74	Waste plastic resource recovery from landfilled refuse: A novel waterless cleaning method and its cost-benefit analysis. <i>Journal of Environmental Management</i> , 2022, 306, 114462.	3.8	12
75	Comprehensive understanding the emission characteristics and kinetics of VOCs from automotive waste paint sludge in a environmental test chamber. <i>Journal of Hazardous Materials</i> , 2022, 429, 128387.	6.5	12
76	Leachate recirculation between alternating aged refuse bioreactors and its effect on refuse decomposition. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 799-807.	1.2	11
77	Greenhouse gas emission and its potential mitigation process from the waste sector in a large-scale exhibition. <i>Journal of Environmental Sciences</i> , 2015, 31, 44-50.	3.2	11
78	Distribution pattern and the risks of OPCs, PHAs and PCBs in aged refuses from landfill. <i>Waste Management</i> , 2016, 55, 330-335.	3.7	11
79	Innovative Integrated Technique for Nutrient Acquisition: Simultaneous Recovery of Carbon and Nitrogen Sources from the Anaerobic Fermentation Liquid of Food Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10944-10951.	3.2	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. <i>Science of the Total Environment</i> , 2022, 828, 154339.	3.9	11
81	Influence of cetyltrimethylammonium bromide and sodium lauryl sulfate on production of zinc powders by alkaline electrowinning. <i>Russian Journal of Non-Ferrous Metals</i> , 2014, 55, 65-72.	0.2	10
82	Spatial distribution of organic pollutants in industrial construction and demolition waste and their mutual interaction on an abandoned pesticide manufacturing plant. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 482-492.	1.7	10
83	Statistical Key Factor Optimization of Conditions for Biohydrogen Production from Sewage Sludge and Food Waste by Anaerobic Codigestion. <i>Energy &amp; Fuels</i> , 2019, 33, 11163-11172.	2.5	10
84	Characterization and Risk Assessment of Particulate Matter and Volatile Organic Compounds in Metro Carriage in Shanghai, China. <i>Atmosphere</i> , 2019, 10, 302.	1.0	10
85	Efficient capture of aqueous humic acid using a functionalized stereoscopic porous activated carbon based on poly(acrylic acid)/food-waste hydrogel. <i>Journal of Environmental Sciences</i> , 2019, 77, 104-114.	3.2	9
86	How to predict emissions of volatile organic compounds from solid building materials? A critical review on mass transfer models. <i>Journal of Environmental Management</i> , 2022, 302, 114054.	3.8	9
87	Recovering of Zinc from Solid Waste Bearing Sphalerite or Zinc Ferrite by Mechano-Chemical Extraction in Alkaline Solution. <i>Procedia Environmental Sciences</i> , 2012, 16, 786-790.	1.3	8
88	Molten hydroxide for detoxification of chlorine-containing waste: Unraveling chlorine retention efficiency and chlorine salt enrichment. <i>Journal of Environmental Sciences</i> , 2019, 82, 192-202.	3.2	8
89	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.	3.8	8
90	Sewage denitrification performance and sludge properties variation with the addition of liquid from perishable organic anaerobic fermentation. <i>Bioresource Technology</i> , 2021, 341, 125821.	4.8	8

#	ARTICLE	IF	CITATIONS
91	Title is missing!. Water, Air, and Soil Pollution, 1998, 102, 157-176.	1.1	7
92	Field assessment of stratified aged-refuse-based reactor for landfill leachate treatment. Waste Management and Research, 2011, 29, 1294-1302.	2.2	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.	2.2	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 /Overlock 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.	3.3	5
96	Indicating landfill stabilization state by using leachate property from Laogang Refuse Landfill. Frontiers of Environmental Science and Engineering, 2014, 8, 405-410.	3.3	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.	0.2	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.	3.8	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.	1.8	2
103	Comparison of alternative remediation technologies for recycled gravel contaminated with heavy metals. Waste Management and Research, 2015, 33, 1005-1014.	2.2	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.	2.7	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

#	ARTICLE	IF	CITATIONS
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.	1.2	0