

# Ruo He

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,939  
citations

257450

24  
h-index

265206

42  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1858  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on characteristics of leachate and concentrated leachate in three landfill leachate treatment plants. <i>Waste Management</i> , 2013, 33, 2277-2286.	7.4	229
2	Content, mobility and transfer behavior of heavy metals in MSWI bottom ash in Zhejiang province, China. <i>Fuel</i> , 2010, 89, 616-622.	6.4	94
3	Methane oxidation in landfill waste biocover soil: Kinetics and sensitivity to ambient conditions. <i>Waste Management</i> , 2011, 31, 864-870.	7.4	88
4	Effect of Fenton oxidation on biodegradability, biotoxicity and dissolved organic matter distribution of concentrated landfill leachate derived from a membrane process. <i>Waste Management</i> , 2015, 38, 232-239.	7.4	87
5	Diversity of active aerobic methanotrophs along depth profiles of arctic and subarctic lake water column and sediments. <i>ISME Journal</i> , 2012, 6, 1937-1948.	9.8	85
6	Characteristics of the bioreactor landfill system using an anaerobic-aerobic process for nitrogen removal. <i>Bioresource Technology</i> , 2007, 98, 2526-2532.	9.6	79
7	Shifts in Identity and Activity of Methanotrophs in Arctic Lake Sediments in Response to Temperature Changes. <i>Applied and Environmental Microbiology</i> , 2012, 78, 4715-4723.	3.1	78
8	Identification of functionally active aerobic methanotrophs in sediments from an arctic lake using stable isotope probing. <i>Environmental Microbiology</i> , 2012, 14, 1403-1419.	3.8	73
9	Biological degradation of MSW in a methanogenic reactor using treated leachate recirculation. <i>Process Biochemistry</i> , 2005, 40, 3660-3666.	3.7	57
10	Mechanism of H <sub>2</sub> S removal during landfill stabilization in waste biocover soil, an alternative landfill cover. <i>Journal of Hazardous Materials</i> , 2012, 217-218, 67-75.	12.4	51
11	Diversity and activity of sulphur-oxidizing bacteria and sulphate-reducing bacteria in landfill cover soils. <i>Letters in Applied Microbiology</i> , 2014, 59, 26-34.	2.2	51
12	Characterization of adsorption removal of hydrogen sulfide by waste biocover soil, an alternative landfill cover. <i>Journal of Hazardous Materials</i> , 2011, 186, 773-778.	12.4	50
13	Assessment of the major odor contributors and health risks of volatile compounds in three disposal technologies for municipal solid waste. <i>Waste Management</i> , 2019, 91, 128-138.	7.4	48
14	Nitrogen removal in the bioreactor landfill system with intermittent aeration at the top of landfilled waste. <i>Journal of Hazardous Materials</i> , 2006, 136, 784-790.	12.4	47
15	Responses of oxidation rate and microbial communities to methane in simulated landfill cover soil microcosms. <i>Bioresource Technology</i> , 2008, 99, 7192-7199.	9.6	47
16	Phosphorus interception in floodwater of paddy field during the rice-growing season in TaiHu Lake Basin. <i>Environmental Pollution</i> , 2007, 145, 425-433.	7.5	44
17	Characterization of a joint recirculation of concentrated leachate and leachate to landfills with a microaerobic bioreactor for leachate treatment. <i>Waste Management</i> , 2015, 46, 380-388.	7.4	39
18	Conversion of sulfur compounds and microbial community in anaerobic treatment of fish and pork waste. <i>Waste Management</i> , 2018, 76, 383-393.	7.4	35

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19	Effects of Metsulfuron-Methyl on the Microbial Population and Enzyme Activities in Wheat Rhizosphere Soil. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2006, 41, 269-284.	1.5	33
20	An analytical model for estimating the reduction of methane emission through landfill cover soils by methane oxidation. <i>Journal of Hazardous Materials</i> , 2015, 283, 871-879.	12.4	33
21	Methane-derived carbon flow through microbial communities in arctic lake sediments. <i>Environmental Microbiology</i> , 2015, 17, 3233-3250.	3.8	31
22	Effects of ammonium on the activity and community of methanotrophs in landfill biocover soils. <i>Systematic and Applied Microbiology</i> , 2014, 37, 296-304.	2.8	27
23	Evaluation of methane oxidation activity in waste biocover soil during landfill stabilization. <i>Chemosphere</i> , 2012, 89, 672-679.	8.2	26
24	Microbial community and function of enrichment cultures with methane and toluene. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 3121-3131.	3.6	26
25	Effects of different pretreatment methods on biogas production and microbial community in anaerobic digestion of wheat straw. <i>Environmental Science and Pollution Research</i> , 2021, 28, 51772-51785.	5.3	25
26	Metabolic flexibility of aerobic methanotrophs under anoxic conditions in Arctic lake sediments. <i>ISME Journal</i> , 2022, 16, 78-90.	9.8	25
27	Characterization of H <sub>2</sub> S removal and microbial community in landfill cover soils. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18906-18917.	5.3	22
28	Ammonium conversion and its feedback effect on methane oxidation of <i>Methylosinus sporium</i> . <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 466-473.	2.2	22
29	Evaluation of simultaneous biodegradation of methane and toluene in landfill covers. <i>Journal of Hazardous Materials</i> , 2014, 274, 367-375.	12.4	21
30	Responses of methanotrophic activity, community and EPS production to CH <sub>4</sub> and O <sub>2</sub> concentrations in waste biocover soils. <i>Waste Management</i> , 2015, 42, 118-127.	7.4	20
31	Conversion of methane-derived carbon and microbial community in enrichment cultures in response to O <sub>2</sub> availability. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7517-7528.	5.3	20
32	Methanethiol generation potential from anaerobic degradation of municipal solid waste in landfills. <i>Environmental Science and Pollution Research</i> , 2017, 24, 23992-24001.	5.3	20
33	Stable-isotopic and metagenomic analyses reveal metabolic and microbial link of aerobic methane oxidation coupled to denitrification at different O <sub>2</sub> levels. <i>Science of the Total Environment</i> , 2021, 764, 142901.	8.0	20
34	Diversity and activity of methanotrophs in landfill cover soils with and without landfill gas recovery systems. <i>Systematic and Applied Microbiology</i> , 2014, 37, 200-207.	2.8	19
35	Potential application of biocover soils to landfills for mitigating toluene emission. <i>Journal of Hazardous Materials</i> , 2015, 299, 18-26.	12.4	19
36	Effects of trichloroethylene on community structure and activity of methanotrophs in landfill cover soils. <i>Soil Biology and Biochemistry</i> , 2014, 78, 118-127.	8.8	18

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37	Vertical profiles of community and activity of methanotrophs in landfill cover soils of different age. <i>Journal of Applied Microbiology</i> , 2013, 115, 756-765.	3.1	17
38	Low O <sub>2</sub> level enhances CH <sub>4</sub> -derived carbon flow into microbial communities in landfill cover soils. <i>Environmental Pollution</i> , 2020, 258, 113676.	7.5	17
39	Effect of pentachlorophenol and chemical oxygen demand mass concentrations in influent on operational behaviors of upflow anaerobic sludge blanket (UASB) reactor. <i>Journal of Hazardous Materials</i> , 2006, 136, 645-653.	12.4	15
40	Studies on the toxic effects of pentachlorophenol on the biological activity of anaerobic granular sludge. <i>Journal of Environmental Management</i> , 2008, 88, 939-946.	7.8	15
41	Enhanced removal of methanethiol and its conversion products in the presence of methane in biofilters. <i>Journal of Cleaner Production</i> , 2019, 215, 75-83.	9.3	15
42	Eutrophic levels and algae growth increase emissions of methane and volatile sulfur compounds from lakes. <i>Environmental Pollution</i> , 2022, 306, 119435.	7.5	14
43	Effects of methane on the microbial populations and oxidation rates in different landfill cover soil columns. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 785-793.	1.7	10
44	Bio-immobilization of Cu and Zn in recirculated bioreactor landfill. <i>Environmental Science and Pollution Research</i> , 2010, 17, 1539-1546.	5.3	10
45	Response of methanotrophic activity to extracellular polymeric substance production and its influencing factors. <i>Waste Management</i> , 2017, 69, 289-297.	7.4	10
46	Reduction in VOC emissions by intermittent aeration in bioreactor landfills with gas-water joint regulation. <i>Environmental Pollution</i> , 2021, 290, 118059.	7.5	10
47	Intermittent aeration reducing N <sub>2</sub> O emissions from bioreactor landfills with gas-water joint regulation. <i>Waste Management</i> , 2022, 139, 309-320.	7.4	10
48	Effect of dissolved oxygen on nitrogen purification of microbial ecosystem in sediments. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 397-405.	1.7	9
49	Effect of sample pretreatment on speciation of copper and zinc in MSW. <i>Journal of Hazardous Materials</i> , 2009, 168, 770-776.	12.4	9
50	Characterization of trichloroethylene adsorption onto waste biocover soil in the presence of landfill gas. <i>Journal of Hazardous Materials</i> , 2015, 295, 185-192.	12.4	8
51	Effects of concentrated leachate injection modes on stabilization of landfilled waste. <i>Environmental Science and Pollution Research</i> , 2016, 23, 3333-3341.	5.3	8
52	Characterization of toluene metabolism by methanotroph and its effect on methane oxidation. <i>Environmental Science and Pollution Research</i> , 2018, 25, 16816-16824.	5.3	8
53	Effects of oxygen tension on the microbial community and functional gene expression of aerobic methane oxidation coupled to denitrification systems. <i>Environmental Science and Pollution Research</i> , 2020, 27, 12280-12292.	5.3	8
54	CS <sub>2</sub> increasing CH <sub>4</sub> -derived carbon emissions and active microbial diversity in lake sediments. <i>Environmental Research</i> , 2022, 208, 112678.	7.5	8

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55	Releasing behavior of zinc in recirculated bioreactor landfill. <i>Science of the Total Environment</i> , 2009, 407, 4110-4116.	8.0	6
56	Elimination of sulphur odours at landfills by bioconversion and the corona discharge plasma technique. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 2959-2966.	2.2	6
57	Comparison of leachate treatments in the simulated landfill bioreactors with different operation modes. <i>Desalination and Water Treatment</i> , 2010, 16, 10-16.	1.0	5
58	Chemical and microbiological characterization of pig manures and digestates. <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 1916-1925.	2.2	5
59	Enhanced degradation of methanethiol in enrichment cultures in the presence of methane. <i>Biochemical Engineering Journal</i> , 2021, 168, 107934.	3.6	4
60	Effect of leachate recycling and inoculation on the biochemical characteristics of municipal refuse in landfill bioreactors. <i>Journal of Environmental Sciences</i> , 2002, 14, 406-12.	6.1	3