

# Wenhai Luo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66  
papers

2,094  
citations

28  
h-index

45  
g-index

70  
ext. papers

2,749  
ext. citations

9.6  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
66	Enhancing biogas production from livestock manure in solid-state anaerobic digestion by sorghum-vinegar residues. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 26, 102276	7	1
65	Strategies to enhance micropollutant removal from wastewater by membrane bioreactors: Recent advances and future perspectives. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126322	11	3
64	New insights to the difference in microbial composition and interspecies interactions between fouling layer and mixed liquor in a membrane bioreactor. <i>Journal of Membrane Science</i> , <b>2022</b> , 643, 120034	9.6	2
63	Recovery of nitrogen and phosphorus from livestock slurry with treatment technologies: A meta-analysis.. <i>Waste Management</i> , <b>2022</b> , 144, 313-323	8.6	0
62	Comparison between cold plasma, ultrasonication, and alkaline hydrogen peroxide pretreatments of garden waste to enhance humification in subsequent composting with kitchen waste: Performance and mechanisms.. <i>Bioresource Technology</i> , <b>2022</b> , 354, 127228	11	0
61	Performance of coagulant-aided biomass filtration to protect ultrafiltration from membrane fouling in biogas slurry concentration. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 102659	7	0
60	Effects of digestion duration on energy efficiency, compost quality, and carbon flow during solid state anaerobic digestion and composting hybrid process. <i>Science of the Total Environment</i> , <b>2021</b> , 811, 151363	10.2	0
59	Humification and maturation of kitchen waste during indoor composting by individual households.. <i>Science of the Total Environment</i> , <b>2021</b> , 152509	10.2	0
58	Carbohydrates and genetic properties of two psychrophile pseudomonas B 5-16 and B 6-15. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 22, 101422	7	2
57	Relating bacterial dynamics and functions to gaseous emissions during composting of kitchen and garden wastes. <i>Science of the Total Environment</i> , <b>2021</b> , 767, 144210	10.2	24
56	Anaerobic digestion of agricultural wastes from liquid to solid state: Performance and environ-economic comparison. <i>Bioresource Technology</i> , <b>2021</b> , 332, 125080	11	7
55	Bacterial dynamics and functions driven by bulking agents to mitigate gaseous emissions in kitchen waste composting. <i>Bioresource Technology</i> , <b>2021</b> , 332, 125028	11	17
54	Effects of surfactant addition to draw solution on the performance of osmotic membrane bioreactor. <i>Journal of Membrane Science</i> , <b>2021</b> , 618, 118634	9.6	4
53	Bacterial dynamics and functions for gaseous emissions and humification in response to aeration intensities during kitchen waste composting. <i>Bioresource Technology</i> , <b>2021</b> , 337, 125369	11	8
52	Bacterial dynamics for gaseous emission and humification in bio-augmented composting of kitchen waste. <i>Science of the Total Environment</i> , <b>2021</b> , 801, 149640	10.2	4
51	Biochar amendment to advance contaminant removal in anaerobic digestion of organic solid wastes: A review. <i>Bioresource Technology</i> , <b>2021</b> , 341, 125827	11	5
50	Regulating bacterial dynamics by lime addition to enhance kitchen waste composting. <i>Bioresource Technology</i> , <b>2021</b> , 341, 125749	11	3

49	Emerging investigator series: engineering membrane distillation with nanofabrication: design, performance and mechanisms. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 1786-1793	4.2	5
48	Factors affecting gaseous emissions, maturity, and energy efficiency in composting of livestock manure digestate. <i>Science of the Total Environment</i> , <b>2020</b> , 731, 139157	10.2	19
47	Gaseous emission and maturity in composting of livestock manure and tobacco wastes: Effects of aeration intensities and mitigation by physiochemical additives. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 19, 100899	7	16
46	Anaerobic osmotic membrane bioreactor for wastewater treatment and reclamation <b>2020</b> , 241-258		1
45	Membrane Processes for Resource Recovery from Anaerobically Digested Livestock Manure Effluent: Opportunities and Challenges. <i>Current Pollution Reports</i> , <b>2020</b> , 6, 123-136	7.6	8
44	Comparison between aerobic and anaerobic membrane bioreactors for trace organic contaminant removal in wastewater treatment. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 17, 100564	7	24
43	Effects of moisture and carbon/nitrogen ratio on gaseous emissions and maturity during direct composting of cornstalks used for filtration of anaerobically digested manure centrate. <i>Bioresource Technology</i> , <b>2020</b> , 298, 122503	11	32
42	Anaerobic digestion of different agricultural wastes: A techno-economic assessment. <i>Bioresource Technology</i> , <b>2020</b> , 315, 123836	11	16
41	Insights into characteristics of organic matter during co-biodrying of sewage sludge and kitchen waste under different aeration intensities. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 20, 101117	7	4
40	Emerging investigator series: onsite recycling of salinealkaline soil washing water by forward osmosis: techno-economic evaluation and implication. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 2881-2890	4.2	0
39	Resource recovery from digested manure centrate: Comparison between conventional and aquaporin thin-film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , <b>2020</b> , 593, 117436	9.6	24
38	Anaerobic membrane bioreactors for emerging pollutants removal <b>2020</b> , 197-218		2
37	Anaerobic cultivation of waste activated sludge to inoculate solid state anaerobic co-digestion of agricultural wastes: Effects of different cultivated periods. <i>Bioresource Technology</i> , <b>2019</b> , 294, 122078	11	13
36	Removal of antibiotics by sequencing-batch membrane bioreactor for swine wastewater treatment. <i>Science of the Total Environment</i> , <b>2019</b> , 684, 23-30	10.2	48
35	Dissipation and persistence of sulfonamides, quinolones and tetracyclines in anaerobically digested biosolids and compost during short-term storage under natural conditions. <i>Science of the Total Environment</i> , <b>2019</b> , 684, 58-66	10.2	17
34	Co-biodrying of sewage sludge and organic fraction of municipal solid waste: A thermogravimetric assessment of the blends. <i>Waste Management</i> , <b>2019</b> , 95, 652-660	8.6	5
33	Performance of mature compost to control gaseous emissions in kitchen waste composting. <i>Science of the Total Environment</i> , <b>2019</b> , 657, 262-269	10.2	81
32	Salinity build-up in osmotic membrane bioreactors: Causes, impacts, and potential cures. <i>Bioresource Technology</i> , <b>2018</b> , 257, 301-310	11	35

31	Effects of sludge enhanced aeration on nutrient contents and phytotoxicity of anaerobically digested centrate. <i>Chemosphere</i> , <b>2018</b> , 203, 490-496	8.4	4
30	Seeing is believing: Insights from synchrotron infrared mapping for membrane fouling in osmotic membrane bioreactors. <i>Water Research</i> , <b>2018</b> , 137, 355-361	12.5	28
29	An anaerobic membrane bioreactor - membrane distillation hybrid system for energy recovery and water reuse: Removal performance of organic carbon, nutrients, and trace organic contaminants. <i>Science of the Total Environment</i> , <b>2018</b> , 628-629, 358-365	10.2	61
28	Osmotic Membrane Bioreactor and Its Hybrid Systems for Wastewater Reuse and Resource Recovery: Advances, Challenges, and Future Directions. <i>Current Pollution Reports</i> , <b>2018</b> , 4, 23-34	7.6	20
27	Trace organic contaminant rejection by aquaporin forward osmosis membrane: Transport mechanisms and membrane stability. <i>Water Research</i> , <b>2018</b> , 132, 90-98	12.5	56
26	Effects of the aeration pattern, aeration rate, and turning frequency on municipal solid waste biodrying performance. <i>Journal of Environmental Management</i> , <b>2018</b> , 218, 416-424	7.9	17
25	Effects of digestion time in anaerobic digestion on subsequent digestate composting. <i>Bioresource Technology</i> , <b>2018</b> , 267, 117-125	11	20
24	Co-biodrying of sewage sludge and organic fraction of municipal solid waste: Role of mixing proportions. <i>Waste Management</i> , <b>2018</b> , 77, 333-340	8.6	19
23	Biomimetic aquaporin membranes for osmotic membrane bioreactors: Membrane performance and contaminant removal. <i>Bioresource Technology</i> , <b>2018</b> , 249, 62-68	11	68
22	Performance of co-composting sewage sludge and organic fraction of municipal solid waste at different proportions. <i>Bioresource Technology</i> , <b>2018</b> , 250, 853-859	11	77
21	Effects of sulphur on the performance of an anaerobic membrane bioreactor: Biological stability, trace organic contaminant removal, and membrane fouling. <i>Bioresource Technology</i> , <b>2018</b> , 250, 171-177	11	34
20	Performance of phosphogypsum and calcium magnesium phosphate fertilizer for nitrogen conservation in pig manure composting. <i>Bioresource Technology</i> , <b>2018</b> , 250, 53-59	11	63
19	Resource recovery from wastewater by anaerobic membrane bioreactors: Opportunities and challenges. <i>Bioresource Technology</i> , <b>2018</b> , 270, 669-677	11	98
18	Manure digestate storage under different conditions: Chemical characteristics and contaminant residuals. <i>Science of the Total Environment</i> , <b>2018</b> , 639, 19-25	10.2	27
17	Synchrotron Fourier transform infrared mapping: A novel approach for membrane fouling characterization. <i>Water Research</i> , <b>2017</b> , 111, 375-381	12.5	17
16	Osmotic membrane bioreactors for wastewater reuse: Performance comparison between cellulose triacetate and polyamide thin film composite membranes. <i>Journal of Membrane Science</i> , <b>2017</b> , 539, 383-391	8.6	35
15	Effects of woody peat and superphosphate on compost maturity and gaseous emissions during pig manure composting. <i>Waste Management</i> , <b>2017</b> , 68, 56-63	8.6	58
14	Surface pattern by nanoimprint for membrane fouling mitigation: Design, performance and mechanisms. <i>Water Research</i> , <b>2017</b> , 124, 238-243	12.5	46

13	An Osmotic Membrane Bioreactor-Membrane Distillation System for Simultaneous Wastewater Reuse and Seawater Desalination: Performance and Implications. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 14311-14320	10.3	47
12	Osmotic versus conventional membrane bioreactors integrated with reverse osmosis for water reuse: Biological stability, membrane fouling, and contaminant removal. <i>Water Research</i> , <b>2017</b> , 109, 122-134	12.5	128
11	Effects of aeration rate on maturity and gaseous emissions during sewage sludge composting. <i>Waste Management</i> , <b>2016</b> , 56, 403-10	8.6	119
10	Biodegradation of cellulose triacetate and polyamide forward osmosis membranes in an activated sludge bioreactor: Observations and implications. <i>Journal of Membrane Science</i> , <b>2016</b> , 510, 284-292	9.6	38
9	Effects of salinity build-up on the performance and bacterial community structure of a membrane bioreactor. <i>Bioresource Technology</i> , <b>2016</b> , 200, 305-10	11	65
8	Phosphorus and water recovery by a novel osmotic membrane bioreactor-reverse osmosis system. <i>Bioresource Technology</i> , <b>2016</b> , 200, 297-304	11	89
7	Evaluating ionic organic draw solutes in osmotic membrane bioreactors for water reuse. <i>Journal of Membrane Science</i> , <b>2016</b> , 514, 636-645	9.6	53
6	Use of additive and pretreatment to control odors in municipal kitchen waste during aerobic composting. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 37, 83-90	6.4	48
5	Water extraction from mixed liquor of an aerobic bioreactor by forward osmosis: Membrane fouling and biomass characteristics assessment. <i>Separation and Purification Technology</i> , <b>2015</b> , 145, 56-62	8.3	57
4	Effects of salinity build-up on biomass characteristics and trace organic chemical removal: implications on the development of high retention membrane bioreactors. <i>Bioresource Technology</i> , <b>2015</b> , 177, 274-81	11	58
3	The role of forward osmosis and microfiltration in an integrated osmotic-microfiltration membrane bioreactor system. <i>Chemosphere</i> , <b>2015</b> , 136, 125-32	8.4	54
2	High retention membrane bioreactors: challenges and opportunities. <i>Bioresource Technology</i> , <b>2014</b> , 167, 539-46	11	85
1	Effect of phosphogypsum and dicyandiamide as additives on NH <sub>3</sub> , N <sub>2</sub> O and CH <sub>4</sub> emissions during composting. <i>Journal of Environmental Sciences</i> , <b>2013</b> , 25, 1338-45	6.4	72