

Wenhai Luo

List of Publications by Year in descending order

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69
papers

3,416
citations

101384

36
h-index

143772

57
g-index

70
all docs

70
docs citations

70
times ranked

2505
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of aeration rate on maturity and gaseous emissions during sewage sludge composting. <i>Waste Management</i> , 2016, 56, 403-410.	3.7	179
2	Performance of mature compost to control gaseous emissions in kitchen waste composting. <i>Science of the Total Environment</i> , 2019, 657, 262-269.	3.9	153
3	Osmotic versus conventional membrane bioreactors integrated with reverse osmosis for water reuse: Biological stability, membrane fouling, and contaminant removal. <i>Water Research</i> , 2017, 109, 122-134.	5.3	152
4	Resource recovery from wastewater by anaerobic membrane bioreactors: Opportunities and challenges. <i>Bioresource Technology</i> , 2018, 270, 669-677.	4.8	140
5	Performance of co-composting sewage sludge and organic fraction of municipal solid waste at different proportions. <i>Bioresource Technology</i> , 2018, 250, 853-859.	4.8	110
6	Performance of phosphogypsum and calcium magnesium phosphate fertilizer for nitrogen conservation in pig manure composting. <i>Bioresource Technology</i> , 2018, 250, 53-59.	4.8	110
7	Phosphorus and water recovery by a novel osmotic membrane bioreactor—reverse osmosis system. <i>Bioresource Technology</i> , 2016, 200, 297-304.	4.8	109
8	High retention membrane bioreactors: Challenges and opportunities. <i>Bioresource Technology</i> , 2014, 167, 539-546.	4.8	101
9	Effect of phosphogypsum and dicyandiamide as additives on NH ₃ , N ₂ O and CH ₄ emissions during composting. <i>Journal of Environmental Sciences</i> , 2013, 25, 1338-1345.	3.2	97
10	Relating bacterial dynamics and functions to gaseous emissions during composting of kitchen and garden wastes. <i>Science of the Total Environment</i> , 2021, 767, 144210.	3.9	96
11	Effects of woody peat and superphosphate on compost maturity and gaseous emissions during pig manure composting. <i>Waste Management</i> , 2017, 68, 56-63.	3.7	94
12	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> , 2018, 628-629, 358-365.	3.9	92
13	Removal of antibiotics by sequencing-batch membrane bioreactor for swine wastewater treatment. <i>Science of the Total Environment</i> , 2019, 684, 23-30.	3.9	89
14	Biomimetic aquaporin membranes for osmotic membrane bioreactors: Membrane performance and contaminant removal. <i>Bioresource Technology</i> , 2018, 249, 62-68.	4.8	85
15	Effects of salinity build-up on the performance and bacterial community structure of a membrane bioreactor. <i>Bioresource Technology</i> , 2016, 200, 305-310.	4.8	81
16	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> , 2020, 298, 122503.	4.8	78
17	Trace organic contaminant rejection by aquaporin forward osmosis membrane: Transport mechanisms and membrane stability. <i>Water Research</i> , 2018, 132, 90-98.	5.3	76
18	Use of additive and pretreatment to control odors in municipal kitchen waste during aerobic composting. <i>Journal of Environmental Sciences</i> , 2015, 37, 83-90.	3.2	75

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19	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> , 2015, 177, 274-281.	4.8	70
20	Surface pattern by nanoimprint for membrane fouling mitigation: Design, performance and mechanisms. <i>Water Research</i> , 2017, 124, 238-243.	5.3	68
21	Bacterial dynamics and functions for gaseous emissions and humification in response to aeration intensities during kitchen waste composting. <i>Bioresource Technology</i> , 2021, 337, 125369.	4.8	61
22	Water extraction from mixed liquor of an aerobic bioreactor by forward osmosis: Membrane fouling and biomass characteristics assessment. <i>Separation and Purification Technology</i> , 2015, 145, 56-62.	3.9	60
23	Evaluating ionic organic draw solutes in osmotic membrane bioreactors for water reuse. <i>Journal of Membrane Science</i> , 2016, 514, 636-645.	4.1	59
24	The role of forward osmosis and microfiltration in an integrated osmotic-microfiltration membrane bioreactor system. <i>Chemosphere</i> , 2015, 136, 125-132.	4.2	56
25	An Osmotic Membrane Bioreactor Membrane Distillation System for Simultaneous Wastewater Reuse and Seawater Desalination: Performance and Implications. <i>Environmental Science & Technology</i> , 2017, 51, 14311-14320.	4.6	56
26	Bacterial dynamics and functions driven by bulking agents to mitigate gaseous emissions in kitchen waste composting. <i>Bioresource Technology</i> , 2021, 332, 125028.	4.8	54
27	Bacterial dynamics for gaseous emission and humification in bio-augmented composting of kitchen waste. <i>Science of the Total Environment</i> , 2021, 801, 149640.	3.9	48
28	Effects of sulphur on the performance of an anaerobic membrane bioreactor: Biological stability, trace organic contaminant removal, and membrane fouling. <i>Bioresource Technology</i> , 2018, 250, 171-177.	4.8	47
29	Biodegradation of cellulose triacetate and polyamide forward osmosis membranes in an activated sludge bioreactor: Observations and implications. <i>Journal of Membrane Science</i> , 2016, 510, 284-292.	4.1	46
30	Comparison between aerobic and anaerobic membrane bioreactors for trace organic contaminant removal in wastewater treatment. <i>Environmental Technology and Innovation</i> , 2020, 17, 100564.	3.0	46
31	Salinity build-up in osmotic membrane bioreactors: Causes, impacts, and potential cures. <i>Bioresource Technology</i> , 2018, 257, 301-310.	4.8	43
32	Manure digestate storage under different conditions: Chemical characteristics and contaminant residuals. <i>Science of the Total Environment</i> , 2018, 639, 19-25.	3.9	42
33	Resource recovery from digested manure centrate: Comparison between conventional and aquaporin thin-film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , 2020, 593, 117436.	4.1	42
34	Regulating bacterial dynamics by lime addition to enhance kitchen waste composting. <i>Bioresource Technology</i> , 2021, 341, 125749.	4.8	42
35	Anaerobic digestion of different agricultural wastes: A techno-economic assessment. <i>Bioresource Technology</i> , 2020, 315, 123836.	4.8	41
36	Osmotic membrane bioreactors for wastewater reuse: Performance comparison between cellulose triacetate and polyamide thin film composite membranes. <i>Journal of Membrane Science</i> , 2017, 539, 383-391.	4.1	40

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37	Effects of digestion time in anaerobic digestion on subsequent digestate composting. <i>Bioresource Technology</i> , 2018, 267, 117-125.	4.8	37
38	Factors affecting gaseous emissions, maturity, and energy efficiency in composting of livestock manure digestate. <i>Science of the Total Environment</i> , 2020, 731, 139157.	3.9	35
39	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> , 2020, 19, 100899.	3.0	33
40	Seeing is believing: Insights from synchrotron infrared mapping for membrane fouling in osmotic membrane bioreactors. <i>Water Research</i> , 2018, 137, 355-361.	5.3	31
41	Biochar amendment to advance contaminant removal in anaerobic digestion of organic solid wastes: A review. <i>Bioresource Technology</i> , 2021, 341, 125827.	4.8	31
42	Effects of the aeration pattern, aeration rate, and turning frequency on municipal solid waste biodrying performance. <i>Journal of Environmental Management</i> , 2018, 218, 416-424.	3.8	30
43	Strategies to enhance micropollutant removal from wastewater by membrane bioreactors: Recent advances and future perspectives. <i>Bioresource Technology</i> , 2022, 344, 126322.	4.8	27
44	Humification and maturation of kitchen waste during indoor composting by individual households. <i>Science of the Total Environment</i> , 2022, 814, 152509.	3.9	25
45	Co-composting of kitchen waste with agriculture and forestry residues and characteristics of compost with different particle size: An industrial scale case study. <i>Waste Management</i> , 2022, 149, 313-322.	3.7	25
46	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> , 2019, 684, 58-66.	3.9	24
47	Impacts of nano-zero-valent iron on antibiotic removal by anaerobic membrane bioreactor for swine wastewater treatment. <i>Journal of Membrane Science</i> , 2022, 659, 120762.	4.1	24
48	Co-biodrying of sewage sludge and organic fraction of municipal solid waste: Role of mixing proportions. <i>Waste Management</i> , 2018, 77, 333-340.	3.7	23
49	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> , 2022, 354, 127228.	4.8	23
50	Osmotic Membrane Bioreactor and Its Hybrid Systems for Wastewater Reuse and Resource Recovery: Advances, Challenges, and Future Directions. <i>Current Pollution Reports</i> , 2018, 4, 23-34.	3.1	22
51	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> , 2019, 294, 122078.	4.8	22
52	Anaerobic digestion of agricultural wastes from liquid to solid state: Performance and environ-economic comparison. <i>Bioresource Technology</i> , 2021, 332, 125080.	4.8	21
53	Synchrotron Fourier transform infrared mapping: A novel approach for membrane fouling characterization. <i>Water Research</i> , 2017, 111, 375-381.	5.3	19
54	Membrane Processes for Resource Recovery from Anaerobically Digested Livestock Manure Effluent: Opportunities and Challenges. <i>Current Pollution Reports</i> , 2020, 6, 123-136.	3.1	18

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55	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> , 2020, 20, 101117.	3.0	16
56	Enhancing biogas production from livestock manure in solid-state anaerobic digestion by sorghum-vinegar residues. <i>Environmental Technology and Innovation</i> , 2022, 26, 102276.	3.0	15
57	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> , 2022, 811, 151363.	3.9	12
58	Effects of surfactant addition to draw solution on the performance of osmotic membrane bioreactor. <i>Journal of Membrane Science</i> , 2021, 618, 118634.	4.1	11
59	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> , 2022, 643, 120034.	4.1	8
60	Development of Solid-State Anaerobic Digestion and Aerobic Composting Hybrid Processes for Organic Solid Waste Treatment and Resource Recovery: a Review. <i>Current Pollution Reports</i> , 2022, 8, 221-233.	3.1	8
61	Effects of sludge enhanced aeration on nutrient contents and phytotoxicity of anaerobically digested centrate. <i>Chemosphere</i> , 2018, 203, 490-496.	4.2	7
62	Emerging investigator series: engineering membrane distillation with nanofabrication: design, performance and mechanisms. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1786-1793.	1.2	7
63	Co-biodrying of sewage sludge and organic fraction of municipal solid waste: A thermogravimetric assessment of the blends. <i>Waste Management</i> , 2019, 95, 652-660.	3.7	6
64	Recovery of nitrogen and phosphorus from livestock slurry with treatment technologies: A meta-analysis. <i>Waste Management</i> , 2022, 144, 313-323.	3.7	6
65	Performance of coagulant-aided biomass filtration to protect ultrafiltration from membrane fouling in biogas slurry concentration. <i>Environmental Technology and Innovation</i> , 2022, 28, 102659.	3.0	5
66	Emerging investigator series: onsite recycling of saline-alkaline soil washing water by forward osmosis: techno-economic evaluation and implication. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2881-2890.	1.2	2
67	Anaerobic membrane bioreactors for emerging pollutants removal. , 2020, , 197-218.		2
68	Carbohydrates and genetic properties of two psychrophile pseudomonas B 5-16 and B 6-15. <i>Environmental Technology and Innovation</i> , 2021, 22, 101422.	3.0	2
69	Anaerobic osmotic membrane bioreactor for wastewater treatment and reclamation. , 2020, , 241-258.		1