Wei Qiao

List of Publications by Year
in descending order

68	3,033	136950 32	168389 53
papers	citations	h-index	g-index

72	72	72	2628
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of biogas production from different biomass wastes with/without hydrothermal pretreatment. Renewable Energy, 2011, 36, 3313-3318.	8.9	236
2	Mesophilic methane fermentation of chicken manure at a wide range of ammonia concentration: Stability, inhibition and recovery. Bioresource Technology, 2013, 137, 358-367.	9.6	178
3	Biochar assisted thermophilic co-digestion of food waste and waste activated sludge under high feedstock to seed sludge ratio in batch experiment. Bioresource Technology, 2018, 249, 1009-1016.	9.6	149
4	Anaerobic digestion of food waste for bio-energy production in China and Southeast Asia: A review. Renewable and Sustainable Energy Reviews, 2020, 133, 110138.	16.4	127
5	Bio-hydrogen and bio-methane production from food waste in a two-stage anaerobic digestion process with digestate recirculation. Renewable Energy, 2019, 130, 1108-1115.	8.9	126
6	Characterization of methanogenesis, acidogenesis and hydrolysis in thermophilic methane fermentation of chicken manure. Chemical Engineering Journal, 2014, 244, 587-596.	12.7	96
7	Possible solutions for sludge dewatering in China. Frontiers of Environmental Science and Engineering in China, 2010, 4, 102-107.	0.8	95
8	Microbial community shifts and biogas conversion computation during steady, inhibited and recovered stages of thermophilic methane fermentation on chicken manure with a wide variation of ammonia. Bioresource Technology, 2013, 146, 223-233.	9.6	88
9	Pilot-scale anaerobic co-digestion of municipal biomass waste and waste activated sludge in China: Effect of organic loading rate. Waste Management, 2012, 32, 2056-2060.	7.4	85
10	Kinetic characterization of thermophilic and mesophilic anaerobic digestion for coffee grounds and waste activated sludge. Waste Management, 2015, 36, 77-85.	7.4	85
11	Thermophilic anaerobic digestion of coffee grounds with and without waste activated sludge as co-substrate using a submerged AnMBR: System amendments and membrane performance. Bioresource Technology, 2013, 150, 249-258.	9.6	83
12	An explanation of the methanogenic pathway for methane production in anaerobic digestion of nitrogen-rich materials under mesophilic and thermophilic conditions. Bioresource Technology, 2018, 264, 42-50.	9.6	76
13	Improved high solid anaerobic digestion of chicken manure by moderate in situ ammonia stripping and its relation to metabolic pathway. Renewable Energy, 2020, 146, 2380-2389.	8.9	70
14	Searching for possibilities to improve the performance of full scale agricultural biogas plants. Renewable Energy, 2018, 116, 720-727.	8.9	68
15	Sulfate addition as an effective method to improve methane fermentation performance and propionate degradation in thermophilic anaerobic co-digestion of coffee grounds, milk and waste activated sludge with AnMBR. Bioresource Technology, 2015, 185, 308-315.	9.6	66
16	Effects of lipid concentration on anaerobic co-digestion of municipal biomass wastes. Waste Management, 2014, 34, 1025-1034.	7.4	64
17	Long-term bio-H2 and bio-CH4 production from food waste in a continuous two-stage system: Energy efficiency and conversion pathways. Bioresource Technology, 2018, 248, 204-213.	9.6	64
18	Bio-hydrolysis and bio-hydrogen production from food waste by thermophilic and hyperthermophilic anaerobic process. Bioresource Technology, 2016, 216, 768-777.	9.6	60

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19	Effects of organic loading rate on anaerobic digestion of chicken manure under mesophilic and thermophilic conditions. Renewable Energy, 2019, 139, 242-250.	8.9	60
20	High rate anaerobic digestion of swine wastewater in an anaerobic membrane bioreactor. Energy, 2020, 193, 116783.	8.8	56
21	Long-term stability of thermophilic co-digestion submerged anaerobic membrane reactor encountering high organic loading rate, persistent propionate and detectable hydrogen in biogas. Bioresource Technology, 2013, 149, 92-102.	9.6	55
22	Effect of ammonia inhibition on microbial community dynamic and process functional resilience in mesophilic methane fermentation of chicken manure. Journal of Chemical Technology and Biotechnology, 2015, 90, 2161-2169.	3.2	50
23	Thermodynamically enhancing propionic acid degradation by using sulfate as an external electron acceptor in a thermophilic anaerobic membrane reactor. Water Research, 2016, 106, 320-329.	11.3	50
24	Biogas production from supernatant of hydrothermally treated municipal sludge by upflow anaerobic sludge blanket reactor. Bioresource Technology, 2011, 102, 9904-9911.	9.6	49
25	The effect of mono- and multiple fermentation parameters on volatile fatty acids (VFAs) production from chicken manure via anaerobic digestion. Bioresource Technology, 2021, 330, 124992.	9.6	45
26	Sewage sludge hydrothermal treatment by microwave irradiation combined with alkali addition. Journal of Materials Science, 2008, 43, 2431-2436.	3.7	43
27	A Glimpse of the World of Volatile Fatty Acids Production and Application: A review. Bioengineered, 2022, 13, 1249-1275.	3.2	43
28	Impact of temperature and substrate concentration on degradation rates of acetate, propionate and hydrogen and their links to microbial community structure. Bioresource Technology, 2018, 256, 44-52.	9.6	41
29	Enhanced methanogenic performance and metabolic pathway of high solid anaerobic digestion of chicken manure by Fe2+ and Ni2+ supplementation. Waste Management, 2019, 94, 10-17.	7.4	41
30	The correlation of methanogenic communitiesâ€™ dynamics and process performance of anaerobic digestion of thermal hydrolyzed sludge at short hydraulic retention times. Bioresource Technology, 2019, 272, 180-187.	9.6	41
31	Improving methane production and anaerobic digestion stability of food waste by extracting lipids and mixing it with sewage sludge. Bioresource Technology, 2017, 244, 996-1005.	9.6	38
32	Balancing acidogenesis and methanogenesis metabolism in thermophilic anaerobic digestion of food waste under a high loading rate. Science of the Total Environment, 2022, 824, 153867.	8.0	37
33	Metabolic performance of anaerobic digestion of chicken manure under wet, high solid, and dry conditions. Bioresource Technology, 2020, 296, 122342.	9.6	36
34	Enhancing the performance of thermophilic anaerobic digestion of food waste by introducing a hybrid anaerobic membrane bioreactor. Bioresource Technology, 2021, 341, 125861.	9.6	33
35	AnMBR as alternative to conventional CSTR to achieve efficient methane production from thermal hydrolyzed sludge at short HRTs. Energy, 2018, 159, 588-598.	8.8	32
36	Overcome inhibition of anaerobic digestion of chicken manure under ammonia-stressed condition by lowering the organic loading rate. Bioresource Technology Reports, 2020, 9, 100359.	2.7	31

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37	Enhancing hyper-thermophilic hydrolysis pre-treatment of chicken manure for biogas production by in-situ gas phase ammonia stripping. Bioresource Technology, 2019, 287, 121470.	9.6	29
38	Immobilization of Cu2+, Zn2+, Pb2+, and Cd2+ during geopolymerization. Frontiers of Environmental Science and Engineering, 2015, 9, 642-648.	6.0	26
39	Comprehensive monitoring and management of a long-term thermophilic CSTR treating coffee grounds, coffee liquid, milk waste, and municipal sludge. Bioresource Technology, 2015, 192, 202-211.	9.6	25
40	Enhanced methanization of sewage sludge using an anaerobic membrane bioreactor integrated with hyperthermophilic biological hydrolysis. Energy Conversion and Management, 2019, 196, 846-855.	9.2	24
41	The metabolic performance and microbial communities of anaerobic digestion of chicken manure under stressed ammonia condition: A case study of a 10-year successful biogas plant. Renewable Energy, 2021, 167, 644-651.	8.9	20
42	Challenges of pathogen inactivation in animal manure through anaerobic digestion: a short review. Bioengineered, 2022, 13, 1149-1161.	3.2	20
43	Response of the microbial community to the methanogenic performance of biologically hydrolyzed sewage sludge with variable hydraulic retention times. Bioresource Technology, 2019, 288, 121581.	9.6	19
44	Enhancing pathogen inactivation in pig manure by introducing thermophilic and hyperthermophilic hygienization in a two-stage anaerobic digestion process. Waste Management, 2022, 144, 123-131.	7.4	19
45	Influence of operation conditions on methane production from swine wastewater treated by a self-agitation anaerobic reactor. International Biodeterioration and Biodegradation, 2019, 143, 104710.	3.9	18
46	Biogas recovery from microwave heated sludge by anaerobic digestion. Science China Technological Sciences, 2010, 53, 144-149.	4.0	17
47	Anaerobic co-digestion of municipal biomass wastes and waste activated sludge: Dynamic model and material balances. Journal of Environmental Sciences, 2013, 25, 2112-2122.	6.1	17
48	The materials flow and membrane filtration performance in treating the organic fraction of municipal solid waste leachate by a high solid type of submerged anaerobic membrane bioreactor. Bioresource Technology, 2021, 329, 124927.	9.6	16
49	Thermophilic anaerobic co-digestion of coffee grounds and excess sludge: long term process stability and energy production. RSC Advances, 2015, 5, 26452-26460.	3.6	15
50	Upgrading the anaerobic membrane bioreactor treatment of chicken manure by introducing in-situ ammonia stripping and hyper-thermophilic pretreatment. Bioresource Technology, 2020, 310, 123470.	9.6	15
51	Simultaneous H2S mitigation and methanization enhancement of chicken manure through the introduction of the micro-aeration approach. Chemosphere, 2020, 253, 126687.	8.2	15
52	Enhancing anaerobic digestion of dairy and swine wastewater by adding trace elements: evaluation in batch and continuous experiments. Water Science and Technology, 2019, 80, 1662-1672.	2.5	12
53	Prevalence and characterization of oxazolidinone and phenicol cross-resistance gene optrA in enterococci obtained from anaerobic digestion systems treating swine manure. Environmental Pollution, 2020, 267, 115540.	7.5	12
54	Effect of temperature on the persistence of fecal bacteria in ambient anaerobic digestion systems treating swine manure. Science of the Total Environment, 2021, 791, 148302.	8.0	12

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55	Mitigating membrane fouling in a high solid food waste thermophilic anaerobic membrane bioreactor by incorporating fixed bed bio-carriers. Chemosphere, 2022, 292, 133488.	8.2	12
56	Predicting membrane fouling in a high solid AnMBR treating OFMSW leachate through a genetic algorithm and the optimization of a BP neural network model. Journal of Environmental Management, 2022, 307, 114585.	7.8	12
57	Contribution of chemical precipitation to the membrane fouling in a high-solids type anaerobic membrane bioreactor treating OFMSW leachate. Journal of Membrane Science, 2022, 647, 120298.	8.2	11
58	Pilot-scale experiment on thermally hydrolyzed sludge liquor anaerobic digestion using a mesophilic expanded granular sludge bed reactor. Water Science and Technology, 2013, 68, 948-955.	2.5	10
59	Biostimulation of sewage sludge solubilization and methanization by hyper-thermophilic pre-hydrolysis stage and the shifts of microbial structure profiles. Science of the Total Environment, 2020, 699, 134373.	8.0	10
60	Air Supplement as a Stimulation Approach for the In Situ Desulfurization and Methanization Enhancement of Anaerobic Digestion of Chicken Manure. Energy & Fuels, 2020, 34, 12606-12615.	5.1	9
61	Occurrence and transfer characteristics of blaCTX-M genes among Escherichia coli in anaerobic digestion systems treating swine waste. Science of the Total Environment, 2022, 834, 155321.	8.0	8
62	Upgrading the performance of high solids feeding anaerobic digestion of chicken manure under extremely high ammonia level. Renewable Energy, 2022, 194, 13-20.	8.9	7
63	Treatment of 14 sludge types from wastewater treatment plants using bench and pilot thermal hydrolysis. Water Science and Technology, 2012, 66, 895-902.	2.5	6
64	Miniphocaeibacter halophilus sp. nov., an ammonium-tolerant acetate-producing bacterium isolated from a biogas system. International Journal of Systematic and Evolutionary Microbiology, 2022, 72, .	1.7	6
65	Transformations and Impacts of Ammonia and Hydrogen Sulfide in Anaerobic Reactors. , 2015, , 109-131.		4
66	Manure treatment and recycling technologies. , 2022, , 161-180.		4
67	Dechlorination of 2,2â€²,4,4â€²,5,5â€²-hexachlorobiphenyl by thermal reaction with activated carbon-supported copper or zinc. Frontiers of Environmental Science and Engineering, 2013, 7, 827-832.	6.0	3
68	Enhancing Anaerobic Degradation of Lignocellulose-Rich Reed Straw by Adopting Grinding Pretreatment and High Temperature. Waste and Biomass Valorization, 2021, 12, 6067-6079.	3.4	3