

Wei Qiao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/137766/publications.pdf>

Version: 2024-02-01

68
papers

3,033
citations

136950

32
h-index

168389

53
g-index

72
all docs

72
docs citations

72
times ranked

2628
citing authors

#	ARTICLE	IF	CITATIONS
1	Manure treatment and recycling technologies. , 2022, , 161-180.		4
2	A Glimpse of the World of Volatile Fatty Acids Production and Application: A review. Bioengineered, 2022, 13, 1249-1275.	3.2	43
3	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
4	Challenges of pathogen inactivation in animal manure through anaerobic digestion: a short review. Bioengineered, 2022, 13, 1149-1161.	3.2	20
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Improved high solid anaerobic digestion of chicken manure by moderate in situ ammonia stripping and its relation to metabolic pathway. <i>Renewable Energy</i> , 2020, 146, 2380-2389.	8.9	70
20	Metabolic performance of anaerobic digestion of chicken manure under wet, high solid, and dry conditions. <i>Bioresource Technology</i> , 2020, 296, 122342.	9.6	36
21	High rate anaerobic digestion of swine wastewater in an anaerobic membrane bioreactor. <i>Energy</i> , 2020, 193, 116783.	8.8	56
22	Overcome inhibition of anaerobic digestion of chicken manure under ammonia-stressed condition by lowering the organic loading rate. <i>Bioresource Technology Reports</i> , 2020, 9, 100359.	2.7	31
23	Air Supplement as a Stimulation Approach for the In Situ Desulfurization and Methanization Enhancement of Anaerobic Digestion of Chicken Manure. <i>Energy & Fuels</i> , 2020, 34, 12606-12615.	5.1	9
24	Anaerobic digestion of food waste for bio-energy production in China and Southeast Asia: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 133, 110138.	16.4	127
25	Prevalence and characterization of oxazolidinone and phenicol cross-resistance gene <i>oprA</i> in enterococci obtained from anaerobic digestion systems treating swine manure. <i>Environmental Pollution</i> , 2020, 267, 115540.	7.5	12
26	Upgrading the anaerobic membrane bioreactor treatment of chicken manure by introducing in-situ ammonia stripping and hyper-thermophilic pretreatment. <i>Bioresource Technology</i> , 2020, 310, 123470.	9.6	15
27	Simultaneous H ₂ S mitigation and methanization enhancement of chicken manure through the introduction of the micro-aeration approach. <i>Chemosphere</i> , 2020, 253, 126687.	8.2	15
28	Bio-hydrogen and bio-methane production from food waste in a two-stage anaerobic digestion process with digestate recirculation. <i>Renewable Energy</i> , 2019, 130, 1108-1115.	8.9	126
29	Enhanced methanization of sewage sludge using an anaerobic membrane bioreactor integrated with hyperthermophilic biological hydrolysis. <i>Energy Conversion and Management</i> , 2019, 196, 846-855.	9.2	24
30	Enhancing hyper-thermophilic hydrolysis pre-treatment of chicken manure for biogas production by in-situ gas phase ammonia stripping. <i>Bioresource Technology</i> , 2019, 287, 121470.	9.6	29
31	Influence of operation conditions on methane production from swine wastewater treated by a self-agitation anaerobic reactor. <i>International Biodeterioration and Biodegradation</i> , 2019, 143, 104710.	3.9	18
32	Enhanced methanogenic performance and metabolic pathway of high solid anaerobic digestion of chicken manure by Fe ²⁺ and Ni ²⁺ supplementation. <i>Waste Management</i> , 2019, 94, 10-17.	7.4	41
33	Response of the microbial community to the methanogenic performance of biologically hydrolyzed sewage sludge with variable hydraulic retention times. <i>Bioresource Technology</i> , 2019, 288, 121581.	9.6	19
34	Effects of organic loading rate on anaerobic digestion of chicken manure under mesophilic and thermophilic conditions. <i>Renewable Energy</i> , 2019, 139, 242-250.	8.9	60
35	Enhancing anaerobic digestion of dairy and swine wastewater by adding trace elements: evaluation in batch and continuous experiments. <i>Water Science and Technology</i> , 2019, 80, 1662-1672.	2.5	12
36	The correlation of methanogenic communities' dynamics and process performance of anaerobic digestion of thermal hydrolyzed sludge at short hydraulic retention times. <i>Bioresource Technology</i> , 2019, 272, 180-187.	9.6	41

#	ARTICLE	IF	CITATIONS
37	Impact of temperature and substrate concentration on degradation rates of acetate, propionate and hydrogen and their links to microbial community structure. <i>Bioresource Technology</i> , 2018, 256, 44-52.	9.6	41
38	Long-term bio-H ₂ and bio-CH ₄ production from food waste in a continuous two-stage system: Energy efficiency and conversion pathways. <i>Bioresource Technology</i> , 2018, 248, 204-213.	9.6	64
39	Biochar assisted thermophilic co-digestion of food waste and waste activated sludge under high feedstock to seed sludge ratio in batch experiment. <i>Bioresource Technology</i> , 2018, 249, 1009-1016.	9.6	149
40	An explanation of the methanogenic pathway for methane production in anaerobic digestion of nitrogen-rich materials under mesophilic and thermophilic conditions. <i>Bioresource Technology</i> , 2018, 264, 42-50.	9.6	76
41	AnMBR as alternative to conventional CSTR to achieve efficient methane production from thermal hydrolyzed sludge at short HRTs. <i>Energy</i> , 2018, 159, 588-598.	8.8	32
42	Searching for possibilities to improve the performance of full scale agricultural biogas plants. <i>Renewable Energy</i> , 2018, 116, 720-727.	8.9	68
43	Improving methane production and anaerobic digestion stability of food waste by extracting lipids and mixing it with sewage sludge. <i>Bioresource Technology</i> , 2017, 244, 996-1005.	9.6	38
44	Thermodynamically enhancing propionic acid degradation by using sulfate as an external electron acceptor in a thermophilic anaerobic membrane reactor. <i>Water Research</i> , 2016, 106, 320-329.	11.3	50
45	Bio-hydrolysis and bio-hydrogen production from food waste by thermophilic and hyperthermophilic anaerobic process. <i>Bioresource Technology</i> , 2016, 216, 768-777.	9.6	60
46	Kinetic characterization of thermophilic and mesophilic anaerobic digestion for coffee grounds and waste activated sludge. <i>Waste Management</i> , 2015, 36, 77-85.	7.4	85
47	Comprehensive monitoring and management of a long-term thermophilic CSTR treating coffee grounds, coffee liquid, milk waste, and municipal sludge. <i>Bioresource Technology</i> , 2015, 192, 202-211.	9.6	25
48	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. <i>Bioresource Technology</i> , 2015, 185, 308-315.	9.6	66
49	Thermophilic anaerobic co-digestion of coffee grounds and excess sludge: long term process stability and energy production. <i>RSC Advances</i> , 2015, 5, 26452-26460.	3.6	15
50	Transformations and Impacts of Ammonia and Hydrogen Sulfide in Anaerobic Reactors. , 2015, , 109-131.		4
51	Effect of ammonia inhibition on microbial community dynamic and process functional resilience in mesophilic methane fermentation of chicken manure. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 2161-2169.	3.2	50
52	Immobilization of Cu ²⁺ , Zn ²⁺ , Pb ²⁺ , and Cd ²⁺ during geopolymerization. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 642-648.	6.0	26
53	Effects of lipid concentration on anaerobic co-digestion of municipal biomass wastes. <i>Waste Management</i> , 2014, 34, 1025-1034.	7.4	64
54	Characterization of methanogenesis, acidogenesis and hydrolysis in thermophilic methane fermentation of chicken manure. <i>Chemical Engineering Journal</i> , 2014, 244, 587-596.	12.7	96

#	ARTICLE	IF	CITATIONS
55	Dechlorination of 2,2,4,4,5,5-hexachlorobiphenyl by thermal reaction with activated carbon-supported copper or zinc. <i>Frontiers of Environmental Science and Engineering</i> , 2013, 7, 827-832.	6.0	3
56	Thermophilic anaerobic digestion of coffee grounds with and without waste activated sludge as co-substrate using a submerged AnMBR: System amendments and membrane performance. <i>Bioresource Technology</i> , 2013, 150, 249-258.	9.6	83
57	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. <i>Bioresource Technology</i> , 2013, 146, 223-233.	9.6	88
58	Long-term stability of thermophilic co-digestion submerged anaerobic membrane reactor encountering high organic loading rate, persistent propionate and detectable hydrogen in biogas. <i>Bioresource Technology</i> , 2013, 149, 92-102.	9.6	55
59	Anaerobic co-digestion of municipal biomass wastes and waste activated sludge: Dynamic model and material balances. <i>Journal of Environmental Sciences</i> , 2013, 25, 2112-2122.	6.1	17
60	Mesophilic methane fermentation of chicken manure at a wide range of ammonia concentration: Stability, inhibition and recovery. <i>Bioresource Technology</i> , 2013, 137, 358-367.	9.6	178
61	Pilot-scale experiment on thermally hydrolyzed sludge liquor anaerobic digestion using a mesophilic expanded granular sludge bed reactor. <i>Water Science and Technology</i> , 2013, 68, 948-955.	2.5	10
62	Pilot-scale anaerobic co-digestion of municipal biomass waste and waste activated sludge in China: Effect of organic loading rate. <i>Waste Management</i> , 2012, 32, 2056-2060.	7.4	85
63	Treatment of 14 sludge types from wastewater treatment plants using bench and pilot thermal hydrolysis. <i>Water Science and Technology</i> , 2012, 66, 895-902.	2.5	6
64	Biogas production from supernatant of hydrothermally treated municipal sludge by upflow anaerobic sludge blanket reactor. <i>Bioresource Technology</i> , 2011, 102, 9904-9911.	9.6	49
65	Evaluation of biogas production from different biomass wastes with/without hydrothermal pretreatment. <i>Renewable Energy</i> , 2011, 36, 3313-3318.	8.9	236
66	Biogas recovery from microwave heated sludge by anaerobic digestion. <i>Science China Technological Sciences</i> , 2010, 53, 144-149.	4.0	17
67	Possible solutions for sludge dewatering in China. <i>Frontiers of Environmental Science and Engineering in China</i> , 2010, 4, 102-107.	0.8	95
68	Sewage sludge hydrothermal treatment by microwave irradiation combined with alkali addition. <i>Journal of Materials Science</i> , 2008, 43, 2431-2436.	3.7	43