Benyi Xiao

List of Publications by Year in descending order

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		172386	243529
50	1,974 citations	29	44
papers	citations	h-index	g-index
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51	51	51	1903
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Bioelectrochemical enhancement of hydrogen and methane production from the anaerobic digestion of sewage sludge in single-chamber membrane-free microbial electrolysis cells. International Journal of Hydrogen Energy, 2013, 38, 1342-1347.	3.8	126
2	Comparison of single-stage and two-stage thermophilic anaerobic digestion of food waste: Performance, energy balance and reaction process. Energy Conversion and Management, 2018, 156, 215-223.	4.4	112
3	Evaluation of the microbial cell structure damages in alkaline pretreatment of waste activated sludge. Bioresource Technology, 2015, 196, 109-115.	4.8	97
4	Temperature-phased anaerobic digestion of food waste: A comparison with single-stage digestions based on performance and energy balance. Bioresource Technology, 2018, 249, 826-834.	4.8	96
5	Enhancing simultaneous electricity production and reduction of sewage sludge in two-chamber MFC by aerobic sludge digestion and sludge pretreatments. Journal of Hazardous Materials, 2011, 189, 444-449.	6.5	87
6	Biological hydrogen production from sterilized sewage sludge by anaerobic self-fermentation. Journal of Hazardous Materials, 2009, 168, 163-167.	6.5	81
7	Effects of sludge thermal-alkaline pretreatment on cationic red X-GRL adsorption onto pyrolysis biochar of sewage sludge. Journal of Hazardous Materials, 2018, 343, 347-355.	6.5	71
8	Evaluation of the damage of cell wall and cell membrane for various extracellular polymeric substance extractions of activated sludge. Journal of Biotechnology, 2014, 188, 130-135.	1.9	68
9	Co-production of biohydrogen and biomethane from food waste and paper waste via recirculated two-phase anaerobic digestion process: Bioenergy yields and metabolic distribution. Bioresource Technology, 2019, 276, 325-334.	4.8	60
10	Effects of various pretreatments on biohydrogen production from sewage sludge. Science Bulletin, 2009, 54, 2038-2044.	4.3	55
11	Effects of temperature and total solid content on biohydrogen production from dark fermentation of rice straw: Performance and microbial community characteristics. Chemosphere, 2022, 286, 131655.	4.2	53
12	Bioenergy recovery from methanogenic co-digestion of food waste and sewage sludge by a high-solid anaerobic membrane bioreactor (AnMBR): mass balance and energy potential. Bioresource Technology, 2021, 326, 124754.	4.8	52
13	Consequences of sludge composition on combustion performance derived from thermogravimetry analysis. Waste Management, 2015, 35, 141-147.	3.7	51
14	Performance and microbial community variations of a upflow anaerobic sludge blanket (UASB) reactor for treating monosodium glutamate wastewater: Effects of organic loading rate. Journal of Environmental Management, 2020, 253, 109691.	3.8	50
15	New Integrated Self-Refluxing Rotating Biological Contactor for rural sewage treatment. Journal of Cleaner Production, 2019, 217, 324-334.	4.6	49
16	Biogas recovery from two-phase anaerobic digestion of food waste and paper waste: Optimization of paper waste addition. Science of the Total Environment, 2018, 634, 1222-1230.	3.9	47
17	Biogas production by two-stage thermophilic anaerobic co-digestion of food waste and paper waste: Effect of paper waste ratio. Renewable Energy, 2019, 132, 1301-1309.	4.3	47
18	New insights into the effect of thermal treatment on sludge dewaterability. Science of the Total Environment, 2019, 656, 1082-1090.	3.9	47

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19	Bioelectrochemical enhancement of the anaerobic digestion of thermal-alkaline pretreated sludge in microbial electrolysis cells. Renewable Energy, 2018, 115, 1177-1183.	4.3	46
20	Relationship of methane and electricity production in two-chamber microbial fuel cell using sewage sludge as substrate. International Journal of Hydrogen Energy, 2014, 39, 16419-16425.	3.8	45
21	Effects of thermal and thermal-alkaline pretreatments on continuous anaerobic sludge digestion: Performance, energy balance and, enhancement mechanism. Renewable Energy, 2020, 147, 2409-2416.	4.3	45
22	Biohythane production and microbial characteristics of two alternating mesophilic and thermophilic two-stage anaerobic co-digesters fed with rice straw and pig manure. Bioresource Technology, 2021, 320, 124303.	4.8	45
23	Anaerobic treatment of glutamate-rich wastewater in a continuous UASB reactor: Effect of hydraulic retention time and methanogenic degradation pathway. Chemosphere, 2020, 245, 125672.	4.2	44
24	Comparison of two advanced anaerobic digestions of sewage sludge with high-temperature thermal pretreatment and low-temperature thermal-alkaline pretreatment. Bioresource Technology, 2020, 304, 122979.	4.8	42
25	Evaluation of electricity production from alkaline pretreated sludge using two-chamber microbial fuel cell. Journal of Hazardous Materials, 2013, 254-255, 57-63.	6.5	41
26	Evaluation of biohydrogen production from glucose and protein at neutral initial pH. International Journal of Hydrogen Energy, 2010, 35, 6152-6160.	3.8	38
27	Enhanced anaerobic digestion of sewage sludge by thermal or alkaline-thermal pretreatments: Influence of hydraulic retention time reduction. International Journal of Hydrogen Energy, 2020, 45, 2655-2667.	3.8	31
28	Temperature-phased anaerobic co-digestion of food waste and paper waste with and without recirculation: Biogas production and microbial structure. Science of the Total Environment, 2020, 724, 138168.	3.9	31
29	Improving two-stage thermophilic-mesophilic anaerobic co-digestion of swine manure and rice straw by digestate recirculation. Chemosphere, 2021, 274, 129787.	4.2	31
30	Evaluation of sludge reduction of three metabolic uncouplers in laboratory-scale anaerobic–anoxic–oxic process. Bioresource Technology, 2016, 221, 31-36.	4.8	25
31	Evaluation of the secondary structures of protein in the extracellular polymeric substances extracted from activated sludge by different methods. Journal of Environmental Sciences, 2019, 80, 128-136.	3.2	25
32	Evaluation of sludge reduction by an environmentally friendly chemical uncoupler in a pilot-scale anaerobic/anoxic/oxic process. Bioprocess and Biosystems Engineering, 2014, 37, 553-560.	1.7	24
33	Effects of low- and high-temperature thermal-alkaline pretreatments on anaerobic digestion of waste activated sludge. Bioresource Technology, 2021, 337, 125400.	4.8	24
34	Strategy of adjusting recirculation ratio for biohythane production via recirculated temperature-phased anaerobic digestion of food waste. Energy, 2019, 179, 1235-1245.	4.5	23
35	Effects of rice straw ratio on mesophilic and thermophilic anaerobic co-digestion of swine manure and rice straw mixture. Energy, 2022, 239, 122021.	4.5	23
36	Impact of alkali and heat pretreatment on the pathway of hydrogen production from sewage sludge. Science Bulletin, 2010, 55, 777-786.	1.7	16

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37	Electricity production and sludge reduction by integrating microbial fuel cells in anoxic-oxic process. Waste Management, 2017, 69, 346-352.	3.7	16
38	Deterioration mechanisms of sludge settleability in sludge reduction systems with metabolic uncouplers. International Biodeterioration and Biodegradation, 2017, 123, 296-303.	1.9	14
39	pH dependency of hydrogen fermentation from alkali-pretreated sludge. Science Bulletin, 2006, 51, 399-404.	1.7	13
40	Comparison and application of biofilter and suspended bioreactor in removing gaseous o-xylene. Environmental Research, 2020, 188, 109853.	3.7	13
41	Evaluation of the sludge reduction effectiveness of a metabolic uncoupler-tetrakis (hydroxymethyl) phosphonium sulfate in anaerobic/anoxic/oxic process. Desalination and Water Treatment, 2016, 57, 5772-5780.	1.0	12
42	Effects of wastewater treatment processes on the sludge reduction system with 2,4-dichlorophenol: Sequencing batch reactor and anaerobic-anoxic-oxic process. Journal of Biotechnology, 2017, 251, 99-105.	1.9	12
43	Effect of mixing ratio and total solids content on temperature-phased anaerobic codigestion of rice straw and pig manure: Biohythane production and microbial structure. Bioresource Technology, 2022, 344, 126173.	4.8	12
44	Dark co-fermentation of rice straw and pig manure for biohydrogen production: effects of different inoculum pretreatments and substrate mixing ratio. Environmental Technology (United Kingdom), 2021, 42, 4539-4549.	1.2	10
45	Effects of substrate organic composition on mesophilic and thermophilic anaerobic co-digestion of food waste and paper waste. Chemosphere, 2022, 291, 132933.	4.2	9
46	Effects of return sludge alkaline treatment on sludge reduction in laboratory-scale anaerobic–anoxic–oxic process. Journal of Biotechnology, 2018, 285, 1-5.	1.9	7
47	Effects of air-prepared atmosphere on the Pb2+ adsorption of sludge-based adsorbent. Biomass Conversion and Biorefinery, 2023, 13, 5757-5769.	2.9	4
48	Effects of mixing ratios on anaerobic co-digestion of swine manure and rice straw: methane production and kinetics. Biomass Conversion and Biorefinery, 0 , 1 .	2.9	3
49	Effects of tetrakis (hydroxymethyl) phosphonium sulfate pretreatment on characteristics of sewage sludge. Journal of Environmental Sciences, 2019, 78, 174-182.	3.2	1
50	Study on sludge reduction of a new uncoupler in A $<$ sup $>$ 2 $<$ /sup $>$ /O process. WIT Transactions on Biomedicine and Health, 2014, , .	0.0	0