

Chyi-How Lay

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.

73
papers

2,956
citations

31
h-index

53
g-index

78
ext. papers

3,406
ext. citations

6.6
avg, IF

5.58
L-index

#	Paper	IF	Citations
73	Effect of nano zero-valent iron (nZVI) on biohydrogen production in anaerobic fermentation of oil palm frond juice using <i>Clostridium butyricum</i> JKT37. <i>Biomass and Bioenergy</i> , 2021 , 154, 106270	5.3	0
72	Comparison of Potential Environmental Impacts and Waste-to-Energy Efficiency for Kitchen Waste Treatment Scenarios in Central Taiwan. <i>Processes</i> , 2021 , 9, 696	2.9	1
71	Economic potential of bioremediation using immobilized microalgae-based microbial fuel cells. <i>Clean Technologies and Environmental Policy</i> , 2021 , 23, 2251-2264	4.3	4
70	Optimization of Hydrolysis-Acidogenesis Phase of Swine Manure for Biogas Production Using Two-Stage Anaerobic Fermentation. <i>Processes</i> , 2021 , 9, 1324	2.9	25
69	Textile wastewater bioremediation using immobilized <i>Chlorella</i> sp. Wu-G23 with continuous culture. <i>Clean Technologies and Environmental Policy</i> , 2021 , 23, 153-161	4.3	10
68	Effect of food to microorganisms (F/M) ratio on biohythane production via single-stage dark fermentation. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 11313-11324	6.7	14
67	A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 16734-16750	6.7	27
66	Sustainable cultivation via waste soybean extract for higher vaccenic acid production by purple non-sulfur bacteria. <i>Clean Technologies and Environmental Policy</i> , 2021 , 23, 103-112	4.3	3
65	Biogas production from beverage factory wastewater in a mobile bioenergy station. <i>Chemosphere</i> , 2021 , 264, 128564	8.4	9
64	Fabrication of ordered mesoporous POMs/SiO-NH nanofibers for production of DFF from 5-HMF for cellulose wastewater resource recovery. <i>Chemosphere</i> , 2021 , 277, 130316	8.4	6
63	Hygro-Thermo-Mechanical Responses of Balsa Wood Core Sandwich Composite Beam Exposed to Fire. <i>Processes</i> , 2020 , 8, 103	2.9	2
62	Recent advanced biotechnological strategies to enhance photo-fermentative biohydrogen production by purple non-sulphur bacteria: An overview. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 13211-13230	6.7	31
61	Immobilized <i>Chlorella</i> species mixotrophic cultivation at various textile wastewater concentrations. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101609	6.7	8
60	Hydrothermally extraction of saponin from root - Physico-chemical characteristics and antibacterial activity evaluation. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020 , 27, e00507	5.3	7
59	Anaerobic Biohydrogen Production Using Rice Husk-Based Biologics. <i>Waste and Biomass Valorization</i> , 2020 , 11, 1059-1068	3.2	3
58	Enhanced photocatalytic performance of metal silver and carbon dots co-doped BiOI photocatalysts and mechanism investigation. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 17516-17529	5.1	8
57	Characterization of Hemp (<i>Cannabis sativa</i> L.) Biodiesel Blends with Euro Diesel, Butanol and Diethyl Ether Using FT-IR, UV-Vis, TGA and DSC Techniques. <i>Waste and Biomass Valorization</i> , 2020 , 11, 1097-1113	3.2	14

56	Recent trends and prospects in biohythane research: An overview. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 5864-5873	6.7	16
55	Review on sustainable production of biochar through hydrothermal liquefaction: Physico-chemical properties and applications. <i>Bioresource Technology</i> , 2020 , 310, 123414	11	56
54	Application of Cold Region Regenerable Biomass in Phosphorus Adsorption in Reclaimed Water. <i>Water (Switzerland)</i> , 2019 , 11, 1815	3	1
53	Co-substrate strategy for improved power production and chlorophenol degradation in a microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20312-20322	6.7	25
52	Biohydrogen Production Perspectives from Organic Waste with Focus on Asia 2019 , 413-435		1
51	Anaerobic hydrogen and methane production from low-strength beverage wastewater. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 14351-14361	6.7	31
50	Microalgae cultivation using biogas and digestate carbon sources. <i>Biomass and Bioenergy</i> , 2019 , 122, 426-432	5.3	23
49	Effects of hydraulic retention time on biohythane production via single-stage anaerobic fermentation in a two-compartment bioreactor. <i>Bioresource Technology</i> , 2019 , 292, 121869	11	19
48	Constructing a cellulosic yeast host with an efficient cellulase cocktail. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 751-761	4.9	9
47	Fermentative biohydrogen production and its byproducts: A mini review of current technology developments. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 4215-4220	16.2	47
46	Bioelectricity generation using microalgal biomass as electron donor in a bio-anode microbial fuel cell. <i>Bioresource Technology</i> , 2018 , 270, 286-293	11	33
45	Lipid accumulating microalgae cultivation in textile wastewater: Environmental parameters optimization. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 79, 1-6	5.3	53
44	Enhancement of fermentative biohydrogen production from textile desizing wastewater via coagulation-pretreatment. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12153-12158	6.7	26
43	Anaerobic hydrogen production from unhydrolyzed mushroom farm waste by indigenous microbiota. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 124, 425-429	3.3	9
42	Effect of hydraulic retention time on continuous electricity production from xylose in up-flow microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27494-27501	6.7	16
41	Starch-containing textile wastewater treatment for biogas and microalgae biomass production. <i>Journal of Cleaner Production</i> , 2017 , 168, 331-337	10.3	38
40	Continuous biohydrogen production from coagulation-pretreated textile desizing wastewater. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 29159-29165	6.7	14
39	High-Strength Wastewater Treatment Using Anaerobic Processes 2017 , 321-357		2

38	State of the art and future concept of food waste fermentation to bioenergy. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 547-557	16.2	89
37	Recent insights into the cell immobilization technology applied for dark fermentative hydrogen production. <i>Bioresource Technology</i> , 2016 , 219, 725-737	11	123
36	Biohydrogen production in an anaerobic baffled stacking reactor: Recirculation strategy and substrate concentration effects. <i>Biochemical Engineering Journal</i> , 2016 , 109, 59-64	4.2	16
35	Biohydrogen Production from Mushroom Cultivation Waste by Anaerobic Solid-state Fermentation. <i>Journal of the Chinese Chemical Society</i> , 2016 , 63, 199-204	1.5	9
34	Continuous anaerobic hydrogen and methane production using water hyacinth feedstock. <i>Arabian Journal for Science and Engineering</i> , 2016 , 41, 2563-2571		8
33	Electricity generation from swine wastewater in microbial fuel cell: Hydraulic reaction time effect. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21820-21826	6.7	39
32	Biohydrogen production by dark fermentation: scaling-up and technologies integration for a sustainable system. <i>Reviews in Environmental Science and Biotechnology</i> , 2015 , 14, 761-785	13.9	77
31	Power generation in fed-batch and continuous up-flow microbial fuel cell from synthetic wastewater. <i>Energy</i> , 2015 , 91, 235-241	7.9	45
30	Fermentative Hydrogen and Methane Productions from Organic Wastes: a Review. <i>Current Biochemical Engineering</i> , 2015 , 3, 16-23	2	7
29	Dark fermentative hydrogen production from lignocellulosic hydrolyzates DA review. <i>Biomass and Bioenergy</i> , 2014 , 67, 145-159	5.3	112
28	Biohydrogen Production from Textile Wastewater by Mixed Microflora in an Intermittent-flow, Stirred Tank Reactor: Effect of Feeding Frequency. <i>Journal of the Chinese Chemical Society</i> , 2014 , 61, 791-796	1.5	8
27	Bioelectricity production on xylose with a compost enrichment culture. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 15606-15612	6.7	19
26	Co-fermentation of water hyacinth and beverage wastewater in powder and pellet form for hydrogen production. <i>Bioresource Technology</i> , 2013 , 135, 610-5	11	45
25	Sustainable bioenergy production from tofu-processing wastewater by anaerobic hydrogen fermentation for onsite energy recovery. <i>Renewable Energy</i> , 2013 , 58, 60-67	8.1	31
24	Simultaneous hydrogen and ethanol production from sweet potato via dark fermentation. <i>Journal of Cleaner Production</i> , 2012 , 27, 155-164	10.3	44
23	Effect of effluent recycle ratio in a continuous anaerobic biohydrogen production system. <i>Journal of Cleaner Production</i> , 2012 , 32, 236-243	10.3	23
22	Fermentative bioenergy production from distillers grains using mixed microflora. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15547-15555	6.7	21
21	Thermophilic dark fermentation of untreated rice straw using mixed cultures for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15540-15546	6.7	88

20	Fermentative hydrogen production from wastewaters: A review and prognosis. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15632-15642	6.7	211
19	Optimizing biohydrogen production from mushroom cultivation waste using anaerobic mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16473-16478	6.7	30
18	Seed inocula for biohydrogen production from biodiesel solid residues. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15489-15495	6.7	29
17	Direct fermentation of sweet potato to produce maximal hydrogen and ethanol. <i>Applied Energy</i> , 2012 , 100, 10-18	10.7	42
16	Fermentative biohydrogen production from starch-containing textile wastewater. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 2050-2057	6.7	38
15	Hydrogen production by the anaerobic fermentation from acid hydrolyzed rice straw hydrolysate. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14280-14288	6.7	62
14	Biohydrogen and biomethane from water hyacinth (<i>Eichhornia crassipes</i>) fermentation: Effects of substrate concentration and incubation temperature. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14195-14203	6.7	87
13	Performance and population analysis of hydrogen production from sugarcane juice by non-sterile continuous stirred tank reactor augmented with <i>Clostridium butyricum</i> . <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8697-8703	6.7	45
12	Anaerobic fermentative system based scheme for green energy sustainable houses. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8719-8726	6.7	3
11	A pilot-scale high-rate biohydrogen production system with mixed microflora. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8758-8764	6.7	77
10	Enhancement of anaerobic biohydrogen/methane production from cellulose using heat-treated activated sludge. <i>Water Science and Technology</i> , 2011 , 63, 1849-54	2.2	15
9	Research and Development of Biohydrogen Production in Taiwan 2010 , 331-344		1
8	Pilot-scale hydrogen fermentation system start-up performance. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 13452-13457	6.7	39
7	Biohydrogen production from soluble condensed molasses fermentation using anaerobic fermentation. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 13445-13451	6.7	90
6	Bioprospecting Thermophilic Microorganisms from Icelandic Hot Springs for Hydrogen and Ethanol Production <i>Energy & Fuels</i> , 2008 , 22, 134-140	4.1	44
5	High-efficiency hydrogen production by an anaerobic, thermophilic enrichment culture from an Icelandic hot spring. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 665-78	4.9	51
4	A nutrient formulation for fermentative hydrogen production using anaerobic sewage sludge microflora. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 285-292	6.7	215
3	Carbon/nitrogen-ratio effect on fermentative hydrogen production by mixed microflora. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 41-45	6.7	275

2	Effects of carbonate and phosphate concentrations on hydrogen production using anaerobic sewage sludge microflora. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 275-281	6.7	179
1	Exploring the environmental and economic potential for biogas production from swine manure wastewater by life cycle assessment. <i>Clean Technologies and Environmental Policy</i> ,1	4.3	2