Chiu-Yue Lin

List of Publications by Citations

117 papers	5,472 citations	44 h-index	70 g-index
125 ext. papers	6,054 ext. citations	6.6 avg, IF	6.08 L-index

#	Paper	IF	Citations
117	Carbon/nitrogen-ratio effect on fermentative hydrogen production by mixed microflora. *International Journal of Hydrogen Energy*, **2004**, 29, 41-45	6.7	275
116	Acid-base enrichment enhances anaerobic hydrogen production process. *Applied Microbiology and Biotechnology*, **2002**, 58, 224-8	5.7	255
115	An overview of food waste management in developing countries: Current status and future perspective. *Journal of Environmental Management*, **2015**, 157, 220-9	7.9	230
114	A nutrient formulation for fermentative hydrogen production using anaerobic sewage sludge microflora. *International Journal of Hydrogen Energy*, **2005**, 30, 285-292	6.7	215
113	Fermentative hydrogen production from wastewaters: A review and prognosis. *International Journal of Hydrogen Energy*, **2012**, 37, 15632-15642	6.7	211
112	Effects of carbonate and phosphate concentrations on hydrogen production using anaerobic sewage sludge microflora. *International Journal of Hydrogen Energy*, **2004**, 29, 275-281	6.7	179
111	Hydrogen production during the anaerobic acidogenic conversion of glucose. *Journal of Chemical Technology and Biotechnology*, **1999**, 74, 498-500	3.5	149
110	Fermentative hydrogen production from xylose using anaerobic mixed microflora. *International Journal of Hydrogen Energy*, **2006**, 31, 832-840	6.7	142
109	Exploring optimal environmental factors for fermentative hydrogen production from starch using mixed anaerobic microflora. *International Journal of Hydrogen Energy*, **2008**, 33, 1565-1572	6.7	131
108	Recent insights into the cell immobilization technology applied for dark fermentative hydrogen production. *Bioresource Technology*, **2016**, 219, 725-737	11	123
107	Effect of heavy metals on acidogenesis in anaerobic digestion. *Water Research*, **1993**, 27, 147-152	12.5	100
106	Biohydrogen production from soluble condensed molasses fermentation using anaerobic fermentation. *International Journal of Hydrogen Energy*, **2010**, 35, 13445-13451	6.7	90
105	Effect of heavy metals on volatile fatty acid degradation in anaerobic digestion. *Water Research*, **1992**, 26, 177-183	12.5	90
104	Biohydrogen and biomethane from water hyacinth (Eichhornia crassipes) fermentation: Effects of substrate concentration and incubation temperature. *International Journal of Hydrogen Energy*, **2011**, 36, 14195-14203	6.7	87
103	Effects of initial cultivation pH on fermentative hydrogen production from xylose using natural mixed cultures. *Process Biochemistry*, **2006**, 41, 1383-1390	4.8	86
102	Effect of heavy metals on the methanogenic UASB granule. *Water Research*, **1999**, 33, 409-416	12.5	78
101	Biohydrogen production by dark fermentation: scaling-up and technologies integration for a sustainable system. *Reviews in Environmental Science and Biotechnology*, **2015**, 14, 761-785	13.9	77

100	A pilot-scale high-rate biohydrogen production system with mixed microflora. *International Journal of Hydrogen Energy*, **2011**, 36, 8758-8764	6.7	77
99	Biomass based hydrogen production by dark fermentation-recent trends and opportunities for greener processes. *Current Opinion in Biotechnology*, **2018**, 50, 136-145	11.4	76
98	Heavy metal effects on fermentative hydrogen production using natural mixed microflora. *International Journal of Hydrogen Energy*, **2008**, 33, 587-593	6.7	75
97	High-rate fermentative hydrogen production from beverage wastewater. *Applied Energy*, **2015**, 147, 1-9	10.7	73
96	Biohydrogen production from sucrose using base-enriched anaerobic mixed microflora. *Process Biochemistry*, **2006**, 41, 915-919	4.8	72
95	Hydrogen production from sucrose using an anaerobic sequencing batch reactor process. *Journal of Chemical Technology and Biotechnology*, **2003**, 78, 678-684	3.5	68
94	Batch fermentative hydrogen production by enriched mixed culture: Combination strategy and their microbial composition. *Journal of Bioscience and Bioengineering*, **2014**, 117, 222-228	3.3	66
93	Overcoming propionic acid inhibition of hydrogen fermentation by temperature shift strategy. *International Journal of Hydrogen Energy*, **2014**, 39, 19232-19241	6.7	66
92	Microbial community structure of a starch-feeding fermentative hydrogen production reactor operated under different incubation conditions. *International Journal of Hydrogen Energy*, **2008**, 33, 5242-5249	6.7	63
91	Hydrogen production by the anaerobic fermentation from acid hydrolyzed rice straw hydrolysate. *International Journal of Hydrogen Energy*, **2011**, 36, 14280-14288	6.7	62
90	Research perspectives on constraints, prospects and opportunities in biohydrogen production. *International Journal of Hydrogen Energy*, **2017**, 42, 27471-27481	6.7	61
89	Electrochemical Treatment of Heavy Metal-containing Wastewater with the Removal of COD and Heavy Metal Ions. *Journal of the Chinese Chemical Society*, **2017**, 64, 493-502	1.5	58
88	Waste-to-wealth for valorization of food waste to hydrogen and methane towards creating a sustainable ideal source of bioenergy. *Journal of Cleaner Production*, **2016**, 122, 29-41	10.3	57
87	Enhanced biohydrogen production from beverage industrial wastewater using external nitrogen sources and bioaugmentation with facultative anaerobic strains. *Journal of Bioscience and Bioengineering*, **2015**, 120, 155-60	3.3	55
86	Food Waste to Bioenergy via Anaerobic Processes. *Energy Procedia*, **2014**, 61, 307-312	2.3	55
85	Methanogenic digestion using mixed substrate of acetic, propionic and butyric acids. *Water Research*, **1986**, 20, 385-394	12.5	53
84	Clostridium strain co-cultures for biohydrogen production enhancement from condensed molasses fermentation solubles. *International Journal of Hydrogen Energy*, **2009**, 34, 7173-7181	6.7	51
83	High-efficiency hydrogen production by an anaerobic, thermophilic enrichment culture from an Icelandic hot spring. *Biotechnology and Bioengineering*, **2008**, 101, 665-78	4.9	51

82	Bioconversion of de-oiled Jatropha Waste (DJW) to hydrogen and methane gas by anaerobic fermentation: Influence of substrate concentration, temperature and pH. *International Journal of Hydrogen Energy*, **2013**, 38, 63-72	6.7	50
81	Sulfate effect on fermentative hydrogen production using anaerobic mixed microflora. *International Journal of Hydrogen Energy*, **2006**, 31, 953-960	6.7	50
80	Pretreatment and hydrolysis methods for recovery of fermentable sugars from de-oiled Jatropha waste. *Bioresource Technology*, **2013**, 145, 275-9	11	49
79	Co-digestion of leachate with septage using a UASB reactor. *Bioresource Technology*, **2000**, 73, 175-178	11	48
78	Application of Clostridium-specific PCR primers on the analysis of dark fermentation hydrogen-producing bacterial community. *International Journal of Hydrogen Energy*, **2008**, 33, 1586-1592	6.7	47
77	Fermentative biohydrogen production and its byproducts: A mini review of current technology developments. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 4215-4220	16.2	47
76	Co-fermentation of water hyacinth and beverage wastewater in powder and pellet form for hydrogen production. *Bioresource Technology*, **2013**, 135, 610-5	11	45
75	Performance and population analysis of hydrogen production from sugarcane juice by non-sterile continuous stirred tank reactor augmented with Clostridium butyricum. *International Journal of Hydrogen Energy*, **2011**, 36, 8697-8703	6.7	45
74	Integration of fermentative hydrogen process and fuel cell for on-line electricity generation. *International Journal of Hydrogen Energy*, **2007**, 32, 802-808	6.7	45
73	Simultaneous hydrogen and ethanol production from sweet potato via dark fermentation. *Journal of Cleaner Production*, **2012**, 27, 155-164	10.3	44
72	Bioprospecting Thermophilic Microorganisms from Icelandic Hot Springs for Hydrogen and Ethanol Production *Energy & Fuels*, **2008**, 22, 134-140	4.1	44
71	Dark Fermentative Hydrogen Production from Xylose in Different Bioreactors Using Sewage Sludge Microflora. *Energy & Fuels*, **2008**, 22, 113-119	4.1	44
70	Exploitation of de-oiled jatropha waste for gold nanoparticles synthesis: A green approach. *Arabian Journal of Chemistry*, **2018**, 11, 247-255	5.9	42
69	Direct fermentation of sweet potato to produce maximal hydrogen and ethanol. *Applied Energy*, **2012**, 100, 10-18	10.7	42
68	Effect of substrate concentration and pH on biohydrogen production kinetics from food industry wastewater by mixed culture. *International Journal of Hydrogen Energy*, **2013**, 38, 15849-15855	6.7	39
67	Biohydrogen production from immobilized cells and suspended sludge systems with condensed molasses fermentation solubles. *International Journal of Hydrogen Energy*, **2011**, 36, 14078-14085	6.7	39
66	Starch-containing textile wastewater treatment for biogas and microalgae biomass production. *Journal of Cleaner Production*, **2017**, 168, 331-337	10.3	38
65	Fermentative biohydrogen production from starch-containing textile wastewater. *International Journal of Hydrogen Energy*, **2012**, 37, 2050-2057	6.7	38

64	Improved microbial conversion of de-oiled Jatropha waste into biohydrogen via inoculum pretreatment: process optimization by experimental design approach. *Biofuel Research Journal*,209-214	13.9	38
63	Effect of cultivation temperature on fermentative hydrogen production from xylose by a mixed culture. *Biomass and Bioenergy*, **2008**, 32, 1109-1115	5.3	35
62	Hydrogenic and methanogenic fermentation of birch and conifer pulps. *Applied Energy*, **2012**, 100, 58-65	10.7	33
61	Mesophilic continuous fermentative hydrogen production from acid pretreated de-oiled jatropha waste hydrolysate using immobilized microorganisms. *Bioresource Technology*, **2017**, 240, 137-143	11	32
60	Hydrogen and ethanol fermentation of various carbon sources by immobilized Escherichia coli (XL1-Blue). *International Journal of Hydrogen Energy*, **2014**, 39, 6881-6888	6.7	32
59	Development of a Novel Hybrid Immobilization Material (HY-IM) for Fermentative Biohydrogen Production from Beverage Wastewater. *Journal of the Chinese Chemical Society*, **2014**, 61, 827-830	1.5	32
58	Anaerobic hydrogen and methane production from low-strength beverage wastewater. *International Journal of Hydrogen Energy*, **2019**, 44, 14351-14361	6.7	31
57	Sustainable bioenergy production from tofu-processing wastewater by anaerobic hydrogen fermentation for onsite energy recovery. *Renewable Energy*, **2013**, 58, 60-67	8.1	31
56	Removal of pollutants from wastewater by coal bottom ash. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2002**, 37, 1509-22	2.3	31
55	Optimizing biohydrogen production from mushroom cultivation waste using anaerobic mixed cultures. *International Journal of Hydrogen Energy*, **2012**, 37, 16473-16478	6.7	30
54	Enhanced biohydrogen production from beverage wastewater: process performance during various hydraulic retention times and their microbial insights. *RSC Advances*, **2016**, 6, 4160-4169	3.7	29
53	Seed inocula for biohydrogen production from biodiesel solid residues. *International Journal of Hydrogen Energy*, **2012**, 37, 15489-15495	6.7	29
52	High rate hydrogen fermentation of cello-lignin fraction in de-oiled jatropha waste using hybrid immobilized cell system. *Fuel*, **2016**, 182, 131-140	7.1	29
51	Enhancing the performance of pilot-scale fermentative hydrogen production by proper combinations of HRT and substrate concentration. *International Journal of Hydrogen Energy*, **2011**, 36, 14289-14294	6.7	28
50	Quantitative analysis of microorganism composition in a pilot-scale fermentative biohydrogen production system. *International Journal of Hydrogen Energy*, **2011**, 36, 14153-14161	6.7	27
49	Enhancement of fermentative biohydrogen production from textile desizing wastewater via coagulation-pretreatment. *International Journal of Hydrogen Energy*, **2017**, 42, 12153-12158	6.7	26
48	Electricity generation comparison of food waste-based bioenergy with wind and solar powers: A mini review. *Sustainable Environment Research*, **2016**, 26, 197-202	3.8	25
47	Optimization of Hydrolysis-Acidogenesis Phase of Swine Manure for Biogas Production Using Two-Stage Anaerobic Fermentation. *Processes*, **2021**, 9, 1324	2.9	25

46	Microalgae cultivation using biogas and digestate carbon sources. *Biomass and Bioenergy*, **2019**, 122, 426-432	5.3	23
45	Enhancement of Fermentative Hydrogen Production from Beverage Wastewater via Bioaugmentation and Statistical Optimization. *Current Biochemical Engineering*, **2014**, 1, 92-98	2	23
44	Modeling and Optimization of Biohydrogen Production from De-oiled Jatropha Using the Response Surface Method. *Arabian Journal for Science and Engineering*, **2015**, 40, 15-22		22
43	Comparative evaluation of hydrogen fermentation of de-oiled Jatropha waste hydrolyzates. *International Journal of Hydrogen Energy*, **2015**, 40, 10766-10774	6.7	21
42	Fermentative bioenergy production from distillers grains using mixed microflora. *International Journal of Hydrogen Energy*, **2012**, 37, 15547-15555	6.7	21
41	Phase holdups and microbial community in high-rate fermentative hydrogen bioreactors. *International Journal of Hydrogen Energy*, **2011**, 36, 364-373	6.7	21
40	Biohythane production via single-stage anaerobic fermentation using entrapped hydrogenic and methanogenic bacteria. *Bioresource Technology*, **2020**, 300, 122702	11	20
39	Effects of hydraulic retention time on biohythane production via single-stage anaerobic fermentation in a two-compartment bioreactor. *Bioresource Technology*, **2019**, 292, 121869	11	19
38	Commercialization model of hydrogen production technology in Taiwan: Dark fermentation technology applications. *International Journal of Hydrogen Energy*, **2016**, 41, 4489-4497	6.7	18
37	Effect of thermal and chemical pretreatments on anaerobic ammonium removal in treating septage using the UASB system. *Bioresource Technology*, **2002**, 83, 259-61	11	17
36	Biohydrogen production in an anaerobic baffled stacking reactor: Recirculation strategy and substrate concentration effects. *Biochemical Engineering Journal*, **2016**, 109, 59-64	4.2	16
35	Biogenic hydrogen conversion of de-oiled jatropha waste via anaerobic sequencing batch reactor operation: process performance, microbial insights, and CO2 reduction efficiency. *Scientific World Journal, The*, **2014**, 2014, 946503	2.2	16
34	Recent trends and prospects in biohythane research: An overview. *International Journal of Hydrogen Energy*, **2020**, 45, 5864-5873	6.7	16
33	Continuous biohydrogen production from coagulation-pretreated textile desizing wastewater. *International Journal of Hydrogen Energy*, **2017**, 42, 29159-29165	6.7	14
32	Effect of food to microorganisms (F/M) ratio on biohythane production via single-stage dark fermentation. *International Journal of Hydrogen Energy*, **2021**, 46, 11313-11324	6.7	14
31	Hydrogen production from beverage wastewater via dark fermentation and room-temperature methane reforming. *International Journal of Hydrogen Energy*, **2016**, 41, 21736-21746	6.7	13
30	Anaerobic co-digestion of septage and landfill leachate. *Bioresource Technology*, **1999**, 68, 275-282	11	13
29	Biohydrogen Production From Beverage Wastewater Using Selectively Enriched Mixed Culture. *Waste and Biomass Valorization*, **2020**, 11, 1049-1058	3.2	12

28	Development of Green Energy Waste Activated Carbon for Removal of Trivalent Chromium: Equilibrium and Kinetic Modeling. *Separation Science and Technology*, **2014**, 49, 513-522	2.5	11
27	Toxicity-resistance of sludge biogranules to heavy metals. *Biotechnology Letters*, **1997**, 19, 557-560	3	11
26	Removal of hydrogen sulfide gas and landfill leachate treatment using coal bottom ash. *Journal of the Air and Waste Management Association*, **2001**, 51, 939-45	2.4	11
25	Anaerobic hydrogen production from unhydrolyzed mushroom farm waste by indigenous microbiota. *Journal of Bioscience and Bioengineering*, **2017**, 124, 425-429	3.3	9
24	Effect of concentration on biohydrogen production in a continuous stirred bioreactor using biofilm induced packed-carrier. *International Journal of Hydrogen Energy*, **2016**, 41, 21649-21656	6.7	9
23	Biohydrogen Production from Mushroom Cultivation Waste by Anaerobic Solid-state Fermentation. *Journal of the Chinese Chemical Society*, **2016**, 63, 199-204	1.5	9
22	Biogas production from beverage factory wastewater in a mobile bioenergy station. *Chemosphere*, **2021**, 264, 128564	8.4	9
21	Biohydrogen Production from Textile Wastewater by Mixed Microflora in an Intermittent-flow, Stirred Tank Reactor: Effect of Feeding Frequency. *Journal of the Chinese Chemical Society*, **2014**, 61, 791-796	1.5	8
20	Toxic effect of sulfur compounds on anaerobic biogranule. *Journal of Hazardous Materials*, **2001**, 87, 11-21	12.8	8
19	Continuous anaerobic hydrogen and methane production using water hyacinth feedstock. *Arabian Journal for Science and Engineering*, **2016**, 41, 2563-2571		8
18	Fermentative Hydrogen and Methane Productions from Organic Wastes: a Review. *Current Biochemical Engineering*, **2015**, 3, 16-23	2	7
17	Mesophilic degradation of butyric acid in anaerobic digestion. *Journal of Chemical Technology and Biotechnology*, **2007**, 56, 191-194	3.5	7
16	Biohythane production via single-stage fermentation using gel-entrapped anaerobic microorganisms: Effect of hydraulic retention time. *Bioresource Technology*, **2020**, 317, 123986	11	7
15	Batch and continuous biogenic hydrogen fermentation of acid pretreated de-oiled jatropha waste (DJW) hydrolysate. *RSC Advances*, **2016**, 6, 45482-45491	3.7	6
14	Roles of organic acids during exectrooxidation reaction over Pt-supported carbon electrodes in direct methanol fuel cells. *International Journal of Hydrogen Energy*, **2013**, 38, 12984-12990	6.7	5
13	Converting waste molasses liquor into biohydrogen via dark fermentation using a continuous bioreactor. *International Journal of Hydrogen Energy*, **2021**, 46, 16546-16554	6.7	5
12	Fe3O4-modified carbon cloth electrode for microbial fuel cells from organic wastewaters. *Desalination and Water Treatment*, **2016**, 57, 29371-29376		5
11	Industrialization roadmap model for fermentative hydrogen production from biomass in Taiwan. *International Journal of Hydrogen Energy*, **2017**, 42, 27460-27470	6.7	3

10	Anaerobic Biohydrogen Production Using Rice Husk-Based Biologics. *Waste and Biomass Valorization*, **2020**, 11, 1059-1068	3.2	3
9	Thermophilic Biohydrogen Fermentation of Kitchen Waste. *Waste and Biomass Valorization*, **2020**, 11, 1041-1047	3.2	3
8	Sensitivity of anaerobic sludge biogranule to sulfur compounds. *Biotechnology Letters*, **1999**, 21, 421-423	3	2
7	Exploring the environmental and economic potential for biogas production from swine manure wastewater by life cycle assessment. *Clean Technologies and Environmental Policy*,1	4.3	2
6	Biohydrogen Production Perspectives from Organic Waste with Focus on Asia **2019**, 413-435		1
5	Research and Development of Biohydrogen Production in Taiwan **2010**, 331-344		1
4	Application of the Clustering Hybrid Regression Approach to Model Xylose-Based Fermentative Hydrogen Production *Energy & Fuels*, **2008**, 22, 128-133	4.1	1
3	Effect of pH shock on single-stage biohythane production using gel-entrapped anaerobic microorganisms. *International Journal of Hydrogen Energy*, **2021**, 47, 3679-3679	6.7	1
2	Comparison of Potential Environmental Impacts and Waste-to-Energy Efficiency for Kitchen Waste Treatment Scenarios in Central Taiwan. *Processes*, **2021**, 9, 696	2.9	1
1	Scale-up and Commercial Applications of Biohydrogen Production Processes **2013**, 339-352		