

Idania Valdez-Vazquez

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,149
citations

304602

22
h-index

233338

45
g-index

60
all docs

60
docs citations

60
times ranked

1919
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen production by fermentative consortia. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1000-1013.	8.2	312
2	Semi-continuous solid substrate anaerobic reactors for H ₂ production from organic waste: Mesophilic versus thermophilic regime. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 1383-1391.	3.8	212
3	Stability problems in the hydrogen production by dark fermentation: Possible causes and solutions. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109602.	8.2	137
4	Hydrogen generation via anaerobic fermentation of paper mill wastes. <i>Bioresource Technology</i> , 2005, 96, 1907-1913.	4.8	127
5	Distribution and potential of bioenergy resources from agricultural activities in Mexico. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 2147-2153.	8.2	93
6	Hydrogen and butanol production from native wheat straw by synthetic microbial consortia integrated by species of <i>Enterococcus</i> and <i>Clostridium</i> . <i>Fuel</i> , 2015, 159, 214-222.	3.4	86
7	Lactate- and acetate-based biohydrogen production through dark co-fermentation of tequila vinasse and nixtamalization wastewater: Metabolic and microbial community dynamics. <i>Bioresource Technology</i> , 2019, 282, 236-244.	4.8	72
8	A novel gas separation integrated membrane bioreactor to evaluate the impact of self-generated biogas recycling on continuous hydrogen fermentation. <i>Applied Energy</i> , 2017, 190, 813-823.	5.1	64
9	Sulfur-selective desulfurization of dibenzothiophene and diesel oil by newly isolated <i>Rhodococcus</i> sp. strains. <i>FEMS Microbiology Letters</i> , 2002, 215, 157-161.	0.7	63
10	Improvement of Biohydrogen Production from Solid Wastes by Intermittent Venting and Gas Flushing of Batch Reactors Headspace. <i>Environmental Science & Technology</i> , 2006, 40, 3409-3415.	4.6	62
11	A review on the factors influencing biohydrogen production from lactate: The key to unlocking enhanced dark fermentative processes. <i>Bioresource Technology</i> , 2021, 324, 124595.	4.8	57
12	Alkalinity and high total solids affecting H ₂ production from organic solid waste by anaerobic consortia. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 3639-3646.	3.8	55
13	Improvement of hydrogen production by reduction of the photosynthetic oxygen in microalgae cultures of <i>Chlamydomonas gloeopara</i> and <i>Scenedesmus obliquus</i> . <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7291-7300.	3.8	51
14	Distinct effects of furfural, hydroxymethylfurfural and its mixtures on dark fermentation hydrogen production and microbial structure of a mixed culture. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2289-2297.	3.8	47
15	Wheat straw, corn stover, sugarcane, and <i>Agave</i> biomasses: chemical properties, availability, and cellulosic bioethanol production potential in Mexico. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 1143-1159.	1.9	47
16	Effect of inhibition treatment, type of inocula, and incubation temperature on batch H ₂ production from organic solid waste. <i>Biotechnology and Bioengineering</i> , 2006, 95, 342-349.	1.7	46
17	Intensified recovery of lipids, proteins, and carbohydrates from wastewater-grown microalgae <i>Desmodesmus</i> sp. by using ultrasound or ozone. <i>Ultrasonics Sonochemistry</i> , 2020, 62, 104852.	3.8	39
18	Enhanced hydrogen production from lignocellulosic substrates via bioaugmentation with <i>Clostridium</i> strains. <i>Industrial Crops and Products</i> , 2019, 137, 105-111.	2.5	33

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19	A comparison of biological, enzymatic, chemical and hydrothermal pretreatments for producing biomethane from Agave bagasse. <i>Industrial Crops and Products</i> , 2020, 145, 112160.	2.5	32
20	Microscopic analysis of wheat straw cell wall degradation by microbial consortia for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 151-160.	3.8	31
21	History of adaptation determines short-term shifts in performance and community structure of hydrogen-producing microbial communities degrading wheat straw. <i>Microbial Biotechnology</i> , 2017, 10, 1569-1580.	2.0	27
22	Ecological perspectives of hydrogen fermentation by microbial consortia: What we have learned and the way forward. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17297-17308.	3.8	24
23	An environment-economic analysis of hydrogen production using advanced biorefineries and its comparison with conventional technologies. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27994-28006.	3.8	24
24	Proposal for biorefineries based on mixed cultures for lignocellulosic biofuel production: a techno-economic analysis. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 56-67.	1.9	23
25	Hydration treatments increase the biodegradability of native wheat straw for hydrogen production by a microbial consortium. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19899-19904.	3.8	22
26	Heat-shock treatment applied to inocula for H ₂ production decreases microbial diversities, interspecific interactions and performance using cellulose as substrate. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13126-13134.	3.8	22
27	Effect of volatile fatty acids mixtures on the simultaneous photofermentative production of hydrogen and polyhydroxybutyrate. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 231-239.	1.7	21
28	Comparison of suspended and granular cell anaerobic bioreactors for hydrogen production from acid agave bagasse hydrolyzates. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 275-285.	3.8	21
29	Lignocellulosic n-butanol co-production in an advanced biorefinery using mixed cultures. <i>Biomass and Bioenergy</i> , 2017, 102, 1-12.	2.9	20
30	Batch biohydrogen production from dilute acid hydrolyzates of fruits-and-vegetables wastes and corn stover as co-substrates. <i>Biomass and Bioenergy</i> , 2020, 140, 105666.	2.9	20
31	The duo <i>Clostridium</i> and <i>Lactobacillus</i> linked to hydrogen production from a lignocellulosic substrate. <i>Water Science and Technology</i> , 2021, 83, 3033-3040.	1.2	20
32	Optimization of volatile fatty acids concentration for photofermentative hydrogen production by a consortium. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 17212-17223.	3.8	19
33	Fermentation of organic wastes and CO ₂ + H ₂ off-gas by microbiotas provides short-chain fatty acids and ethanol for n-caproate production. <i>Journal of CO₂ Utilization</i> , 2020, 42, 101314.	3.3	18
34	Nutrients related to spore germination improve H ₂ production from heat-shock-treated consortia. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 4291-4295.	3.8	16
35	Proposal for a sustainability evaluation framework for bioenergy production systems using the MESMIS methodology. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 360-369.	8.2	16
36	Re-fermentation of washed spent solids from batch hydrogenogenic fermentation for additional production of biohydrogen from the organic fraction of municipal solid waste. <i>Journal of Environmental Management</i> , 2012, 95, S355-S359.	3.8	15

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37	Particle size and hydration medium effects on hydration properties and sugar release of wheat straw fibers. <i>Biomass and Bioenergy</i> , 2014, 68, 67-74.	2.9	14
38	Physicochemical Characterization of Wheat Straw during a Continuous Pretreatment Process. <i>Chemical Engineering and Technology</i> , 2018, 41, 1350-1350.	0.9	14
39	Characterization of a Lignocellulolytic Consortium and Methane Production from Untreated Wheat Straw: Dependence on Nitrogen and Phosphorous Content. <i>BioResources</i> , 2016, 11, .	0.5	14
40	Essential Nutrients for Improving the Direct Processing of Raw Lignocellulosic Substrates Through the Dark Fermentation Process. <i>Bioenergy Research</i> , 2020, 13, 349-357.	2.2	9
41	Butanol production coupled with acidogenesis and CO ₂ conversion for improved carbon utilization. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2121-2131.	2.9	9
42	A Cellulolytic <i>Streptomyces</i> Sp. Isolated from a Highly Oligotrophic Niche Shows Potential for Hydrolyzing Agricultural Wastes. <i>Bioenergy Research</i> , 2021, 14, 333-343.	2.2	9
43	CO-DIGESTION OF <i>Agave angustifolia</i> Haw BAGASSE AND VINASSES FOR BIOGAS PRODUCTION FROM MEZCAL INDUSTRY. <i>Revista Mexicana De Ingeniera Quimica</i> , 2019, 18, 1073-1083.	0.2	9
44	Profitability of single- and mixed-culture fermentations for the butyric acid production from a lignocellulosic substrate. <i>Chemical Engineering Research and Design</i> , 2022, 182, 558-570.	2.7	9
45	Plant-associated microbial communities converge in fermentative hydrogen production and form a core microbiome. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 20049-20063.	3.8	9
46	A biorefinery based on the biomechanical configuration of the digestive system of a ruminant for ABE production: a consolidated bioprocessing approach. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2079-2088.	2.9	8
47	Simultaneous hydrogen production and decolorization of denim textile wastewater: kinetics of decolorizing of indigo dye by bacterial and fungal strains. <i>Brazilian Journal of Microbiology</i> , 2020, 51, 701-709.	0.8	8
48	Nutrient influence on acidogenesis and native microbial community of <i>Agave bagasse</i> . <i>Industrial Crops and Products</i> , 2021, 170, 113751.	2.5	8
49	Optimization of Culture Conditions for Production of Cellulase by <i>Stenotrophomonas maltophilia</i> . <i>BioResources</i> , 2018, 13, .	0.5	6
50	Potential of hydrogen production from organic Urban Solid Waste fermentation in Mexico. <i>International Journal of Environment and Waste Management</i> , 2009, 3, 36.	0.2	5
51	Sequential pretreatment to recover carbohydrates and phosphorus from <i>Desmodesmus</i> sp. cultivated in municipal wastewater. <i>Water Science and Technology</i> , 2020, 82, 1237-1246.	1.2	5
52	Effects of experimental parameters on methane production and volatile solids removal from tomato and pepper plant wastes. <i>BioResources</i> , 2020, 15, 4763-4780.	0.5	4
53	A framework for integrating functional and microbial data: The case of dark fermentation H ₂ production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31706-31718.	3.8	4
54	Microscopy Applied In Biomass Characterization. , 2016, , 173-196.		3

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55	Methane production and bromatological characteristics of the different fractions of organic municipal solid waste. <i>Detritus</i> , 2021, , 13-23.	0.4	3
56	Butanol recovery from synthetic fermentation broth by vacuum distillation in a rotating packed bed. <i>Separation and Purification Technology</i> , 2022, 297, 121551.	3.9	3
57	Effect of transient pH variation on microbial activity and physical characteristics of aerobic granules treating 4-chlorophenol. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020, 55, 878-885.	0.9	2
58	Cover Image, Volume 12, Issue 1. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, i.	1.9	0
59	Activated sludge as inoculum improves methane production and community functionality during the anaerobic digestion of mixed agave wastes. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4635-4644.	2.9	0