ElÃas Razo-Flores

List of Publications by Year
in descending order

87 papers	3,675 citations	136885 32 h-index	143943 57 g-index
88 all docs	88 docs citations	88 times ranked	3133 citing authors

#	Article	IF	Citations
1	Anaerobic Digestion Under Alkaline Conditions from Thermochemical Pretreated Microalgal Biomass. Bioenergy Research, 2022, 15, 346-356.	2.2	4
2	Coping with mass transfer constrains in dark fermentation using a two-phase partitioning bioreactor. Chemical Engineering Journal, 2022, 445, 136749.	6.6	4
3	Optimization by response surface methodology of the enzymatic hydrolysis of non-pretreated agave bagasse with binary mixtures of commercial enzymatic preparations. Biomass Conversion and Biorefinery, 2021, 11, 2923-2935.	2.9	11
4	Improvement of methane production at alkaline and neutral pH from anaerobic co-digestion of microalgal biomass and cheese whey. Biochemical Engineering Journal, 2021, 169, 107972.	1.8	18
5	Acetotrophic sulfate-reducing consortia develop active biofilms on zeolite and glass beads in batch cultures at initial pH 3. Applied Microbiology and Biotechnology, 2021, 105, 5213-5227.	1.7	3
6	Advances towards the understanding of microbial communities in dark fermentation of enzymatic hydrolysates: Diversity, structure and hydrogen production performance. International Journal of Hydrogen Energy, 2021, 46, 27459-27472.	3.8	22
7	Saccharification of agave bagasse with Cellulase 50 XL is an effective alternative to highly specialized lignocellulosic enzymes for continuous hydrogen production. Journal of Environmental Chemical Engineering, 2021, 9, 105448.	3.3	7
8	Humic substances improve the co-production of hydrogen and carboxylic acids by anaerobic mixed cultures. International Journal of Hydrogen Energy, 2021, 46, 32800-32808.	3.8	4
9	Evaluation of the continuous methane production from an enzymatic agave bagasse hydrolysate in suspended (CSTR) and granular biomass systems (UASB). Fuel, 2021, 304, 121406.	3.4	11
10	Knowing the enemy: homoacetogens in hydrogen production reactors. Applied Microbiology and Biotechnology, 2021, 105, 8989-9002.	1.7	8
11	Improving the Biodegradability of Scenedesmus obtusiusculus by Thermochemical Pretreatment to Produce Hydrogen and Methane. Bioenergy Research, 2020, 13, 477-486.	2.2	21
12	Stability problems in the hydrogen production by dark fermentation: Possible causes and solutions. Renewable and Sustainable Energy Reviews, 2020, 119, 109602.	8.2	137
13	Discontinuous biomass recycling as a successful strategy to enhance continuous hydrogen production at high organic loading rates. International Journal of Hydrogen Energy, 2020, 45, 17260-17269.	3.8	17
14	Comparative evaluation of the mesophilic and thermophilic biohydrogen production at optimized conditions using tequila vinasses as substrate. International Journal of Hydrogen Energy, 2020, 45, 11000-11010.	3.8	32
15	Continuous thermophilic hydrogen production from an enzymatic hydrolysate of agave bagasse: Inoculum origin, homoacetogenesis and microbial community analysis. Bioresource Technology, 2020, 306, 123087.	4.8	20
16	A standardized biohydrogen potential protocol: An international round robin test approach. International Journal of Hydrogen Energy, 2019, 44, 26237-26247.	3.8	23
17	Enhancement of mass transfer conditions to increase the productivity and efficiency of dark fermentation in continuous reactors. Fuel, 2019, 254, 115648.	3.4	21
18	Hydrogen and methane production potential of agave bagasse enzymatic hydrolysates and comparative technoeconomic feasibility implications. International Journal of Hydrogen Energy, 2019, 44, 17792-17801.	3.8	25

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19	Improvement of continuous hydrogen production using individual and binary enzymatic hydrolysates of agave bagasse in suspended-culture and biofilm reactors. Bioresource Technology, 2019, 283, 251-260.	4.8	30
20	Inhibitory effect of ethanol on the experimental electrical charge and hydrogen production in microbial electrolysis cells (MECs). Journal of Electroanalytical Chemistry, 2019, 835, 106-113.	1.9	7
21	Hydrogen metabolic patterns driven by Clostridium-Streptococcus community shifts in a continuous stirred tank reactor. Applied Microbiology and Biotechnology, 2018, 102, 2465-2475.	1.7	42
22	Continuous hydrogen and methane production from Agave tequilana bagasse hydrolysate by sequential process to maximize energy recovery efficiency. Bioresource Technology, 2018, 249, 334-341.	4.8	74
23	Agave bagasse biorefinery: processing and perspectives. Clean Technologies and Environmental Policy, 2018, 20, 1423-1441.	2.1	38
24	Enhancing saccharification of Agave tequilana bagasse by oxidative delignification and enzymatic synergism for the production of hydrogen and methane. International Journal of Hydrogen Energy, 2018, 43, 22116-22125.	3.8	28
25	Methane production from thermally pretreated Scenedesmus obtusiusculus biomass in semi-batch reactors at low reaction times. Biochemical Engineering Journal, 2018, 136, 61-68.	1.8	13
26	Effect of inoculum pretreatment on the microbial community structure and its performance during dark fermentation using anaerobic fluidized-bed reactors. International Journal of Hydrogen Energy, 2017, 42, 9589-9599.	3.8	15
27	Dark-fermentative biohydrogen pathways and microbial networks in continuous stirred tank reactors: Novel insights on their control. Applied Energy, 2017, 198, 77-87.	5.1	77
28	Gold recovery from very dilute solutions from a mine in closing process: Adsorption-desorption onto carbon materials. Journal of Molecular Liquids, 2017, 240, 549-555.	2.3	20
29	Continuous hydrogen production from enzymatic hydrolysate of Agave tequilana bagasse: Effect of the organic loading rate and reactor configuration. Chemical Engineering Journal, 2017, 313, 671-679.	6.6	41
30	High robustness of a simplified microbial consortium producing hydrogen in long term operation of a biofilm fermentative reactor. International Journal of Hydrogen Energy, 2016, 41, 2367-2376.	3.8	12
31	Continuous removal and recovery of palladium in an upflow anaerobic granular sludge bed (<scp>UASB</scp>) reactor. Journal of Chemical Technology and Biotechnology, 2016, 91, 1183-1189.	1.6	26
32	Immobilization of biogenic Pd(0) in anaerobic granular sludge for the biotransformation of recalcitrant halogenated pollutants in UASB reactors. Applied Microbiology and Biotechnology, 2016, 100, 1427-1436.	1.7	14
33	An Overview of Reclaimed Wastewater Reuse in Gold Heap Leaching. Mineral Processing and Extractive Metallurgy Review, 2016, 37, 274-285.	2.6	10
34	Cell wash-out enrichment increases the stability and performance of biohydrogen producing packed-bed reactors and the community transition along the operation time. Renewable Energy, 2016, 97, 266-273.	4.3	21
35	Characterization of oxidized carbon foil as a low-cost alternative to carbon felt-based electrodes in bioelectrochemical systems. Journal of Applied Electrochemistry, 2016, 46, 217-227.	1.5	9
36	Microbial communities from 20 different hydrogen-producing reactors studied by 454 pyrosequencing. Applied Microbiology and Biotechnology, 2016, 100, 3371-3384.	1.7	81

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37	Pretreatment and upward liquid velocity effects over granulation in hydrogen producing EGSB reactors. Biochemical Engineering Journal, 2016, 107, 75-84.	1.8	13
38	Recovery of palladium(II) by methanogenic granular sludge. Chemosphere, 2016, 144, 745-753.	4.2	17
39	Sequential hydrolysis of oat straw and hydrogen production from hydrolysates: Role of hydrolysates constituents. International Journal of Hydrogen Energy, 2015, 40, 10756-10765.	3.8	36
40	Inoculum pretreatment promotes differences in hydrogen production performance in EGSB reactors. International Journal of Hydrogen Energy, 2015, 40, 6329-6339.	3.8	53
41	Anchorage of anthraquinone molecules onto activated carbon fibers to enhance the reduction of 4-nitrophenol. Journal of Chemical Technology and Biotechnology, 2015, 90, 1685-1691.	1.6	15
42	Continuous hydrogen production in a trickling bed reactor by using triticale silage as inoculum: effect of simple and complex substrates. Journal of Chemical Technology and Biotechnology, 2015, 90, 1062-1069.	1.6	15
43	Decreasing methane production in hydrogenogenic UASB reactors fed with cheese whey. Biomass and Bioenergy, 2014, 63, 101-108.	2.9	43
44	Strategies to cope with methanogens in hydrogen producing UASB reactors: Community dynamics. International Journal of Hydrogen Energy, 2014, 39, 11423-11432.	3.8	22
45	Direct and Quinone-Mediated Palladium Reduction by <i>Geobacter sulfurreducens:</i> Mechanisms and Modeling. Environmental Science & Technology, 2014, 48, 2910-2919.	4.6	49
46	Maximizing Hydrogen Production and Substrate Consumption by Escherichia coli WDHL in Cheese Whey Fermentation. Applied Biochemistry and Biotechnology, 2013, 171, 704-715.	1.4	10
47	Reduction of palladium and production of nano-catalyst by Geobacter sulfurreducens. Applied Microbiology and Biotechnology, 2013, 97, 9553-9560.	1.7	40
48	Comment on â€œExtracellular Palladium Nanoparticle Production Using <i>Geobacter sulfurreducens</i>â€. ACS Sustainable Chemistry and Engineering, 2013, 1, 1345-1345.	3.2	2
49	Biotic and abiotic characterization of bioanodes formed on oxidized carbon electrodes as a basis to predict their performance. Biosensors and Bioelectronics, 2013, 50, 373-381.	5.3	24
50	Arsenic mobility controlled by solid calcium arsenates: A case study in Mexico showcasing a potentially widespread environmental problem. Environmental Pollution, 2013, 176, 114-122.	3.7	81
51	Hydrogen production from acid and enzymatic oat straw hydrolysates in an anaerobic sequencing batch reactor: Performance and microbial population analysis. International Journal of Hydrogen Energy, 2013, 38, 13884-13894.	3.8	47
52	Rapid startâ€up of a sulfidogenic biofilm reactor: overcoming low acetate consumption. Journal of Chemical Technology and Biotechnology, 2013, 88, 1672-1679.	1.6	8
53	Consortium diversity of a sulfateâ€reducing biofilm developed at acidic pH influent conditions in a downâ€flow fluidized bed reactor. Engineering in Life Sciences, 2013, 13, 302-311.	2.0	26
54	Chemical and enzymatic sequential pretreatment of oat straw for methane production. Bioresource Technology, 2012, 116, 372-378.	4.8	52

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55	Distribution of CO2 fixation and acetate mineralization pathways in microorganisms from extremophilic anaerobic biotopes. Extremophiles, 2012, 16, 805-817.	0.9	11
56	Different start-up strategies to enhance biohydrogen production from cheese whey in UASB reactors. International Journal of Hydrogen Energy, 2012, 37, 5591-5601.	3.8	63
57	Fermentation of lactose and its constituent sugars by Escherichia coli WDHL: Impact on hydrogen production. Bioresource Technology, 2012, 111, 180-184.	4.8	44
58	The buffer composition impacts the hydrogen production and the microbial community composition in non-axenic cultures. Biomass and Bioenergy, 2011, 35, 3174-3181.	2.9	47
59	Continuous production of hydrogen from oat straw hydrolysate in a biotrickling filter. International Journal of Hydrogen Energy, 2011, 36, 3442-3449.	3.8	60
60	Hydrogen production by Escherichia coli Î"hycA Î"lacI using cheese whey as substrate. International Journal of Hydrogen Energy, 2010, 35, 491-499.	3.8	61
61	Precipitation and recovery of metal sulfides from metal containing acidic wastewater in a sulfidogenic downâ€flow fluidized bed reactor. Biotechnology and Bioengineering, 2009, 102, 91-99.	1.7	84
62	Characterization of sulfate-reducing bacteria dominated surface communities during start-up of a down-flow fluidized bed reactor. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 111-121.	1.4	27
63	Phenol and sulfide oxidation in a denitrifying biofilm reactor and its microbial community analysis. Process Biochemistry, 2009, 44, 23-28.	1.8	33
64	Mineralization of methyl tert-butyl ether and other gasoline oxygenates by Pseudomonads using short n-alkanes as growth source. Biodegradation, 2009, 20, 271-280.	1.5	27
65	Biotransformation of aromatic compounds from wastewaters containing N and/or S, by nitrification/denitrification: a review. Reviews in Environmental Science and Biotechnology, 2009, 8, 325-342.	3.9	18
66	Continuous biohydrogen production using cheese whey: Improving the hydrogen production rate. International Journal of Hydrogen Energy, 2009, 34, 4296-4304.	3.8	165
67	Inhibition of sulfate reduction by iron, cadmium and sulfide in granular sludge. Journal of Hazardous Materials, 2009, 172, 400-407.	6.5	44
68	Effect of initial sulfide concentration on sulfide and phenol oxidation under denitrifying conditions. Chemosphere, 2009, 74, 200-205.	4.2	38
69	Fermentative biohydrogen production: trends and perspectives. Reviews in Environmental Science and Biotechnology, 2008, 7, 27-45.	3.9	135
70	Benzene Biodegradation under Anaerobic Conditions Coupled with Metal Oxides Reduction. Water, Air, and Soil Pollution, 2008, 192, 165-172.	1.1	25
71	Simultaneous sulfide and acetate oxidation under denitrifying conditions using an inverse fluidized bed reactor. Journal of Chemical Technology and Biotechnology, 2008, 83, 1197-1203.	1.6	28
72	Riboflavin prevents inhibitory effects during the reductive decolorisation of Reactive Orange 14 by methanogenic sludge. Journal of Chemical Technology and Biotechnology, 2008, 83, 1703-1709.	1.6	7

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73	Fermentative hydrogen production in batch experiments using lactose, cheese whey and glucose: Influence of initial substrate concentration and pH. International Journal of Hydrogen Energy, 2008, 33, 4989-4997.	3.8	193
74	Chemolithotrophic denitrification with elemental sulfur for groundwater treatment. Water Research, 2007, 41, 1253-1262.	5.3	230
75	Biogenic sulphide plays a major role on the riboflavin-mediated decolourisation of azo dyes under sulphate-reducing conditions. Chemosphere, 2007, 68, 1082-1089.	4.2	34
76	Performance of a down-flow fluidized bed reactor under sulfate reduction conditions using volatile fatty acids as electron donors. Biotechnology and Bioengineering, 2007, 97, 771-779.	1.7	56
77	Methyl tert-butyl ether biodegradation by microbial consortia obtained from soil samples of gasoline-polluted sites in Mexico. Biotechnology Letters, 2004, 26, 269-275.	1.1	24
78	Partial thiosulfate oxidation by steady-state continuous culture in a bioreactor-settler system. Journal of Chemical Technology and Biotechnology, 2004, 79, 132-139.	1.6	6
79	Anaerobic biodegradation of phenol in sulfide-rich media. Journal of Chemical Technology and Biotechnology, 2004, 79, 554-561.	1.6	10
80	Hydrogen Sulfide Oxidation by a Microbial Consortium in a Recirculation Reactor System:Â Sulfur Formation under Oxygen Limitation and Removal of Phenols. Environmental Science & Technology, 2004, 38, 918-923.	4.6	82
81	Simultaneous biological removal of nitrogen, carbon and sulfur by denitrification. Water Research, 2004, 38, 3313-3321.	5.3	230
82	Continuous detoxification, transformation, and degradation of nitrophenols in upflow anaerobic sludge blanket (UASB) reactors. , 2000, 51, 439-449.		75
83	Biotransformation and Biodegradation of Selected Nitroaromatics under Anaerobic Conditions. Biotechnology Progress, 1999, 15, 358-365.	1.3	37
84	Complete Biodegradation of the Azo Dye Azodisalicylate under Anaerobic Conditions. Environmental Science & Technology, 1997, 31, 2098-2103.	4.6	160
85	Biotransformation and biodegradation ofN-substituted aromatics in methanogenic granular sludge. FEMS Microbiology Reviews, 1997, 20, 525-538.	3.9	83
86	The effect of granular sludge source on the anaerobic biodegradability of aromatic compounds. Bioresource Technology, 1996, 56, 215-220.	4.8	14
87	Biodegradability of N-substituted aromatics and alkylphenols under methanogenic conditions using granular sludge. Water Science and Technology, 1996, 33, 47-57.	1.2	22