Lucas Tadeu Fuess

List of Publications by Year
in descending order

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41 papers	1,715 citations	304368 22 h-index	288905 40 g-index
41 all docs	41 docs citations	41 times ranked	1081 citing authors

#	Article	IF	Citations
1	Can biogas-producing sugarcane biorefineries techno-economically outperform conventional ethanol production? Deciphering the way towards maximum profitability. Energy Conversion and Management, 2022, 254, 115206.	4.4	6
2	Compositional variability as a major hindering factor in continuous biohydrogen production from cassava starch wastewater: Possible solutions for complex substrates. International Journal of Energy Research, 2022, 46, 12722-12736.	2.2	4
3	Value-added soluble metabolite production from sugarcane vinasse within the carboxylate platform: An application of the anaerobic biorefinery beyond biogas production. Fuel, 2021, 286, 119378.	3.4	17
4	Full details on continuous biohydrogen production from sugarcane molasses are unraveled: Performance optimization, self-regulation, metabolic correlations and quanti-qualitative biomass characterization. Chemical Engineering Journal, 2021, 414, 128934.	6.6	25
5	Biofuel production from sugarcane molasses in thermophilic anaerobic structured-bed reactors. Renewable and Sustainable Energy Reviews, 2021, 144, 110974.	8.2	23
6	Thermophilic biodigestion of fermented sugarcane molasses in high-rate structured-bed reactors: Alkalinization strategies define the operating limits. Energy Conversion and Management, 2021, 239, 114203.	4.4	23
7	Biohydrogen-producing from bottom to top? Quali-quantitative characterization of thermophilic fermentative consortia reveals microbial roles in an upflow fixed-film reactor. Chemical Engineering Journal Advances, 2021, 7, 100125.	2.4	6
8	Diversifying the portfolio of sugarcane biorefineries: Anaerobic digestion as the core process for enhanced resource recovery. Renewable and Sustainable Energy Reviews, 2021, 147, 111246.	8.2	13
9	Dynamics of sulfate reduction in the thermophilic dark fermentation of sugarcane vinasse: A biohydrogen-independent approach targeting enhanced bioenergy production. Journal of Environmental Chemical Engineering, 2021, 9, 105956.	3.3	22
10	Pros and cons of fertirrigation with in natura sugarcane vinasse: Do improvements in soil fertility offset environmental and bioenergy losses?. Journal of Cleaner Production, 2021, 319, 128684.	4.6	19
11	Co-digesting sugarcane vinasse and distilled glycerol to enhance bioenergy generation in biofuel-producing plants. Energy Conversion and Management, 2021, 250, 114897.	4.4	25
12	Thermophilic biohydrogen production from sugarcane molasses under low pH: Metabolic and microbial aspects. International Journal of Hydrogen Energy, 2020, 45, 4182-4192.	3.8	37
13	Molasses vs. juice: Maximizing biohydrogen production in sugarcane biorefineries to diversify renewable energy generation. Journal of Water Process Engineering, 2020, 37, 101534.	2.6	24
14	Sulfidogenesis establishment under increasing metal and nutrient concentrations: An effective approach for biotreating sulfate-rich wastewaters using an innovative structured-bed reactor (AnSTBR). Bioresource Technology Reports, 2020, 11, 100458.	1.5	4
15	Oyster shell-based alkalinization and photocatalytic removal of cyanide as low-cost stabilization approaches for enhanced biogas production from cassava starch wastewater. Chemical Engineering Research and Design, 2020, 139, 47-59.	2.7	25
16	Biochemical butyrate production via dark fermentation as an energetically efficient alternative management approach for vinasse in sugarcane biorefineries. Renewable Energy, 2020, 158, 3-12.	4.3	21
17	Does sugarcane vinasse composition variability affect the bioenergy yield in anaerobic systems? A dual kinetic-energetic assessment. Journal of Cleaner Production, 2019, 240, 118005.	4.6	27
18	Novel insights on the versatility of biohydrogen production from sugarcane vinasse via thermophilic dark fermentation: Impacts of pH-driven operating strategies on acidogenesis metabolite profiles. Bioresource Technology, 2019, 286, 121379.	4.8	89

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19	Enriched microbial consortia for dark fermentation of sugarcane vinasse towards value-added short-chain organic acids and alcohol production. Journal of Bioscience and Bioengineering, 2019, 127, 594-601.	1.1	36
20	Effects of recirculation in anaerobic baffled reactors. Journal of Water Process Engineering, 2019, 28, 36-44.	2.6	18
21	Characterizing phenol-removing consortia under methanogenic and sulfate-reducing conditions: potential metabolic pathways. Environmental Technology (United Kingdom), 2019, 40, 3216-3226.	1.2	11
22	Seasonal characterization of sugarcane vinasse: Assessing environmental impacts from fertirrigation and the bioenergy recovery potential through biodigestion. Science of the Total Environment, 2018, 634, 29-40.	3.9	95
23	Performance improvement of a thermophilic sulfate-reducing bioreactor under acidogenic conditions: Effects of diversified operating strategies. Journal of Environmental Management, 2018, 207, 303-312.	3.8	29
24	Diversifying the technological strategies for recovering bioenergy from the two-phase anaerobic digestion of sugarcane vinasse: An integrated techno-economic and environmental approach. Renewable Energy, 2018, 122, 674-687.	4.3	70
25	Temporal dynamics and metabolic correlation between lactate-producing and hydrogen-producing bacteria in sugarcane vinasse dark fermentation: The key role of lactate. Bioresource Technology, 2018, 247, 426-433.	4.8	104
26	Using dolomitic limestone to replace conventional alkalinization in the biodigestion of rapid acidification cassava processing wastewater. Journal of Cleaner Production, 2018, 172, 2942-2953.	4.6	27
27	Economics of anaerobic digestion for processing sugarcane vinasse: Applying sensitivity analysis to increase process profitability in diversified biogas applications. Chemical Engineering Research and Design, 2018, 115, 27-37.	2.7	55
28	Designing full-scale biodigestion plants for the treatment of vinasse in sugarcane biorefineries: How phase separation and alkalinization impact biogas and electricity production costs?. Chemical Engineering Research and Design, 2017, 119, 209-220.	2.7	66
29	Unraveling the influence of the COD/sulfate ratio on organic matter removal and methane production from the biodigestion of sugarcane vinasse. Bioresource Technology, 2017, 232, 103-112.	4.8	83
30	Calcium dosing for the simultaneous control of biomass retention and the enhancement of fermentative biohydrogen production in an innovative fixed-film bioreactor. International Journal of Hydrogen Energy, 2017, 42, 12181-12196.	3.8	23
31	Media arrangement impacts cell growth in anaerobic fixed-bed reactors treating sugarcane vinasse: Structured vs. randomic biomass immobilization. Bioresource Technology, 2017, 235, 219-228.	4.8	61
32	Thermophilic two-phase anaerobic digestion using an innovative fixed-bed reactor for enhanced organic matter removal and bioenergy recovery from sugarcane vinasse. Applied Energy, 2017, 189, 480-491.	5.1	153
33	Fertirrigation with sugarcane vinasse: Foreseeing potential impacts on soil and water resources through vinasse characterization. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2017, 52, 1063-1072.	0.9	62
34	Anaerobic biodigestion for enhanced bioenergy generation in ethanol biorefineries. , 2017, , 149-183.		4
35	Bacteriocins of lactic acid bacteria as a hindering factor for biohydrogen production from cassava flour wastewater in a continuous multiple tube reactor. International Journal of Hydrogen Energy, 2016, 41, 8120-8131.	3.8	63
36	Operational strategies for long-term biohydrogen production from sugarcane stillage in a continuous acidogenic packed-bed reactor. International Journal of Hydrogen Energy, 2016, 41, 8132-8145.	3.8	90

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37	Bioenergy from stillage anaerobic digestion to enhance the energy balance ratio of ethanol production. Journal of Environmental Management, 2015, 162, 102-114.	3.8	45
38	The application of an innovative continuous multiple tube reactor as a strategy to control the specific organic loading rate for biohydrogen production by dark fermentation. Bioresource Technology, 2015, 197, 201-207.	4.8	35
39	Anaerobic digestion of stillage to produce bioenergy in the sugarcane-to-ethanol industry. Environmental Technology (United Kingdom), 2014, 35, 333-339.	1.2	29
40	Coagulationâ€“flocculation of anaerobically treated sugarcane stillage. Desalination and Water Treatment, 2014, 52, 4111-4121.	1.0	7
41	Implications of stillage land disposal: A critical review on the impacts of fertigation. Journal of Environmental Management, 2014, 145, 210-229.	3.8	139