

Lucas Tadeu Fuess

List of Publications by Year in descending order

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Version: 2024-02-01

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	Thermophilic two-phase anaerobic digestion using an innovative fixed-bed reactor for enhanced organic matter removal and bioenergy recovery from sugarcane vinasse. <i>Applied Energy</i> , 2017, 189, 480-491.	5.1	153
2	Implications of stillage land disposal: A critical review on the impacts of fertigation. <i>Journal of Environmental Management</i> , 2014, 145, 210-229.	3.8	139
3	Temporal dynamics and metabolic correlation between lactate-producing and hydrogen-producing bacteria in sugarcane vinasse dark fermentation: The key role of lactate. <i>Bioresource Technology</i> , 2018, 247, 426-433.	4.8	104
4	Seasonal characterization of sugarcane vinasse: Assessing environmental impacts from fertirrigation and the bioenergy recovery potential through biodigestion. <i>Science of the Total Environment</i> , 2018, 634, 29-40.	3.9	95
5	Operational strategies for long-term biohydrogen production from sugarcane stillage in a continuous acidogenic packed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8132-8145.	3.8	90
6	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. <i>Bioresource Technology</i> , 2019, 286, 121379.	4.8	89
7	Unraveling the influence of the COD/sulfate ratio on organic matter removal and methane production from the biodigestion of sugarcane vinasse. <i>Bioresource Technology</i> , 2017, 232, 103-112.	4.8	83
8	Diversifying the technological strategies for recovering bioenergy from the two-phase anaerobic digestion of sugarcane vinasse: An integrated techno-economic and environmental approach. <i>Renewable Energy</i> , 2018, 122, 674-687.	4.3	70
9	Designing full-scale biodigestion plants for the treatment of vinasse in sugarcane biorefineries: How phase separation and alkalization impact biogas and electricity production costs?. <i>Chemical Engineering Research and Design</i> , 2017, 119, 209-220.	2.7	66
10	Bacteriocins of lactic acid bacteria as a hindering factor for biohydrogen production from cassava flour wastewater in a continuous multiple tube reactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8120-8131.	3.8	63
11	Fertirrigation with sugarcane vinasse: Foreseeing potential impacts on soil and water resources through vinasse characterization. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 1063-1072.	0.9	62
12	Media arrangement impacts cell growth in anaerobic fixed-bed reactors treating sugarcane vinasse: Structured vs. randomic biomass immobilization. <i>Bioresource Technology</i> , 2017, 235, 219-228.	4.8	61
13	Economics of anaerobic digestion for processing sugarcane vinasse: Applying sensitivity analysis to increase process profitability in diversified biogas applications. <i>Chemical Engineering Research and Design</i> , 2018, 115, 27-37.	2.7	55
14	Bioenergy from stillage anaerobic digestion to enhance the energy balance ratio of ethanol production. <i>Journal of Environmental Management</i> , 2015, 162, 102-114.	3.8	45
15	Thermophilic biohydrogen production from sugarcane molasses under low pH: Metabolic and microbial aspects. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4182-4192.	3.8	37
16	Enriched microbial consortia for dark fermentation of sugarcane vinasse towards value-added short-chain organic acids and alcohol production. <i>Journal of Bioscience and Bioengineering</i> , 2019, 127, 594-601.	1.1	36
17	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. <i>Bioresource Technology</i> , 2015, 197, 201-207.	4.8	35
18	Anaerobic digestion of stillage to produce bioenergy in the sugarcane-to-ethanol industry. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 333-339.	1.2	29

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19	Performance improvement of a thermophilic sulfate-reducing bioreactor under acidogenic conditions: Effects of diversified operating strategies. <i>Journal of Environmental Management</i> , 2018, 207, 303-312.	3.8	29
20	Using dolomitic limestone to replace conventional alkalization in the biodigestion of rapid acidification cassava processing wastewater. <i>Journal of Cleaner Production</i> , 2018, 172, 2942-2953.	4.6	27
21	Does sugarcane vinasse composition variability affect the bioenergy yield in anaerobic systems? A dual kinetic-energetic assessment. <i>Journal of Cleaner Production</i> , 2019, 240, 118005.	4.6	27
22	Oyster shell-based alkalization and photocatalytic removal of cyanide as low-cost stabilization approaches for enhanced biogas production from cassava starch wastewater. <i>Chemical Engineering Research and Design</i> , 2020, 139, 47-59.	2.7	25
23	Full details on continuous biohydrogen production from sugarcane molasses are unraveled: Performance optimization, self-regulation, metabolic correlations and quanti-qualitative biomass characterization. <i>Chemical Engineering Journal</i> , 2021, 414, 128934.	6.6	25
24	Co-digesting sugarcane vinasse and distilled glycerol to enhance bioenergy generation in biofuel-producing plants. <i>Energy Conversion and Management</i> , 2021, 250, 114897.	4.4	25
25	Molasses vs. juice: Maximizing biohydrogen production in sugarcane biorefineries to diversify renewable energy generation. <i>Journal of Water Process Engineering</i> , 2020, 37, 101534.	2.6	24
26	Calcium dosing for the simultaneous control of biomass retention and the enhancement of fermentative biohydrogen production in an innovative fixed-film bioreactor. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12181-12196.	3.8	23
27	Biofuel production from sugarcane molasses in thermophilic anaerobic structured-bed reactors. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 144, 110974.	8.2	23
28	Thermophilic biodigestion of fermented sugarcane molasses in high-rate structured-bed reactors: Alkalization strategies define the operating limits. <i>Energy Conversion and Management</i> , 2021, 239, 114203.	4.4	23
29	Dynamics of sulfate reduction in the thermophilic dark fermentation of sugarcane vinasse: A biohydrogen-independent approach targeting enhanced bioenergy production. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105956.	3.3	22
30	Biochemical butyrate production via dark fermentation as an energetically efficient alternative management approach for vinasse in sugarcane biorefineries. <i>Renewable Energy</i> , 2020, 158, 3-12.	4.3	21
31	Pros and cons of fertirrigation with in natura sugarcane vinasse: Do improvements in soil fertility offset environmental and bioenergy losses?. <i>Journal of Cleaner Production</i> , 2021, 319, 128684.	4.6	19
32	Effects of recirculation in anaerobic baffled reactors. <i>Journal of Water Process Engineering</i> , 2019, 28, 36-44.	2.6	18
33	Value-added soluble metabolite production from sugarcane vinasse within the carboxylate platform: An application of the anaerobic biorefinery beyond biogas production. <i>Fuel</i> , 2021, 286, 119378.	3.4	17
34	Diversifying the portfolio of sugarcane biorefineries: Anaerobic digestion as the core process for enhanced resource recovery. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111246.	8.2	13
35	Characterizing phenol-removing consortia under methanogenic and sulfate-reducing conditions: potential metabolic pathways. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3216-3226.	1.2	11
36	Coagulation-flocculation of anaerobically treated sugarcane stillage. <i>Desalination and Water Treatment</i> , 2014, 52, 4111-4121.	1.0	7

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37	Biohydrogen-producing from bottom to top? Quali-quantitative characterization of thermophilic fermentative consortia reveals microbial roles in an upflow fixed-film reactor. <i>Chemical Engineering Journal Advances</i> , 2021, 7, 100125.	2.4	6
38	Can biogas-producing sugarcane biorefineries techno-economically outperform conventional ethanol production? Deciphering the way towards maximum profitability. <i>Energy Conversion and Management</i> , 2022, 254, 115206.	4.4	6
39	Anaerobic biodigestion for enhanced bioenergy generation in ethanol biorefineries. , 2017, , 149-183.		4
40	Sulfidogenesis establishment under increasing metal and nutrient concentrations: An effective approach for biotreating sulfate-rich wastewaters using an innovative structured-bed reactor (AnSTBR). <i>Bioresource Technology Reports</i> , 2020, 11, 100458.	1.5	4
41	Compositional variability as a major hindering factor in continuous biohydrogen production from cassava starch wastewater: Possible solutions for complex substrates. <i>International Journal of Energy Research</i> , 2022, 46, 12722-12736.	2.2	4