

Eduardo Sydney

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,891
citations

361413

20
h-index

477307

29
g-index

39
all docs

39
docs citations

39
times ranked

2338
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential carbon dioxide fixation by industrially important microalgae. <i>Bioresource Technology</i> , 2010, 101, 5892-5896.	9.6	420
2	Screening of microalgae with potential for biodiesel production and nutrient removal from treated domestic sewage. <i>Applied Energy</i> , 2011, 88, 3291-3294.	10.1	221
3	Pilot scale biodiesel production from microbial oil of <i>Rhodospiridium toruloides</i> DEBB 5533 using sugarcane juice: Performance in diesel engine and preliminary economic study. <i>Bioresource Technology</i> , 2017, 223, 259-268.	9.6	145
4	Microbial hydrogen production by bioconversion of crude glycerol: A review. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6473-6490.	7.1	139
5	Microalgal biomass pretreatment for integrated processing into biofuels, food, and feed. <i>Bioresource Technology</i> , 2020, 300, 122719.	9.6	105
6	Economic process to produce biohydrogen and volatile fatty acids by a mixed culture using vinasse from sugarcane ethanol industry as nutrient source. <i>Bioresource Technology</i> , 2014, 159, 380-386.	9.6	98
7	Hydrogen: Current advances and patented technologies of its renewable production. <i>Journal of Cleaner Production</i> , 2021, 286, 124970.	9.3	83
8	Sustainability of sugarcane lignocellulosic biomass pretreatment for the production of bioethanol. <i>Bioresource Technology</i> , 2020, 299, 122635.	9.6	80
9	Development of a vinasse nutritive solution for hydroponics. <i>Journal of Environmental Management</i> , 2013, 114, 8-12.	7.8	60
10	Biohydrogen production in cassava processing wastewater using microbial consortia: Process optimization and kinetic analysis of the microbial community. <i>Bioresource Technology</i> , 2020, 309, 123331.	9.6	51
11	Co-Culture of Microalgae, Cyanobacteria, and Macromycetes for Exopolysaccharides Production: Process Preliminary Optimization and Partial Characterization. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 1092-1106.	2.9	49
12	Beyond sugar and ethanol: The future of sugarcane biorefineries in Brazil. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112721.	16.4	44
13	Current analysis and future perspective of reduction in worldwide greenhouse gases emissions by using first and second generation bioethanol in the transportation sector. <i>Bioresource Technology Reports</i> , 2019, 7, 100234.	2.7	40
14	Screening and bioprospecting of anaerobic consortia for biohydrogen and volatile fatty acid production in a vinasse based medium through dark fermentation. <i>Process Biochemistry</i> , 2018, 67, 1-7.	3.7	38
15	Biological hydrogen production from palm oil mill effluent (POME) by anaerobic consortia and <i>Clostridium beijerinckii</i> . <i>Journal of Biotechnology</i> , 2020, 323, 17-23.	3.8	38
16	Agro-industrial wastewater in a circular economy: Characteristics, impacts and applications for bioenergy and biochemicals. <i>Bioresource Technology</i> , 2021, 341, 125795.	9.6	37
17	Hydrogen production by dark fermentation using a new low-cost culture medium composed of corn steep liquor and cassava processing water: Process optimization and scale-up. <i>Bioresource Technology</i> , 2021, 320, 124370.	9.6	31
18	Current developments and challenges of green technologies for the valorization of liquid, solid, and gaseous wastes from sugarcane ethanol production. <i>Journal of Hazardous Materials</i> , 2021, 404, 124059.	12.4	30

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19	Development of short chain fatty acid-based artificial neuron network tools applied to biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5175-5181.	7.1	25
20	Microalgal biorefineries: Integrated use of liquid and gaseous effluents from bioethanol industry for efficient biomass production. <i>Bioresource Technology</i> , 2019, 292, 121955.	9.6	22
21	The effect of hydrolysis and sterilization in biohydrogen production from cassava processing wastewater medium using anaerobic bacterial consortia. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 25551-25564.	7.1	22
22	Respirometric Balance and Carbon Fixation of Industrially Important Algae. , 2014, , 67-84.		15
23	DILUTE ACID HYDROLYSIS OF SWEET SORGHUM BAGASSE AND FERMENTABILITY OF THE HEMICELLULOSIC HYDROLYSATE. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 143-156.	1.3	15
24	Growth kinetics, phenolic compounds profile and pigments analysis of <i>Galdieria sulphuraria</i> cultivated in whey permeate in shake-flasks and stirred-tank bioreactor. <i>Journal of Water Process Engineering</i> , 2020, 38, 101598.	5.6	14
25	Microalgal strain selection for biofuel production. , 2019, , 51-66.		13
26	Potential carbon fixation of industrially important microalgae. , 2019, , 67-88.		11
27	New Method for the Extraction of Single-Cell Oils from Wet Oleaginous Microbial Biomass: Efficiency, Oil Characterisation and Energy Assessment. <i>Waste and Biomass Valorization</i> , 2020, 11, 3443-3452.	3.4	10
28	Biohydrogen Production from Agro-industrial Wastes Using <i>Clostridium beijerinckii</i> and Isolated Bacteria as Inoculum. <i>Bioenergy Research</i> , 2022, 15, 987-997.	3.9	9
29	Potential application of <i>Spirulina</i> in dermatology. <i>Journal of Cosmetic Dermatology</i> , 2022, 21, 4205-4214.	1.6	6
30	Biocosmetics. , 2014, , 389-411.		5
31	Microscale direct transesterification of microbial biomass with ethanol for screening of microorganisms by its fatty acid content. <i>Brazilian Archives of Biology and Technology</i> , 2019, 62, .	0.5	5
32	Bioethanol Wastes: Economic Valorization. <i>Green Energy and Technology</i> , 2016, , 255-289.	0.6	4
33	Microbial Oil for Biodiesel Production. <i>Green Energy and Technology</i> , 2016, , 387-406.	0.6	4
34	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy. , 2022, , 69-94.		1
35	Downstream processing and formulation of microbial lipids. , 2022, , 261-287.		1
36	Production of Biofuels from Algal Biomass by Fast Pyrolysis. , 2014, , 143-153.		0

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37	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy. , 2021, , 1-27.		0
38	Recovery and valorization of CO2 from the organic wastes fermentation. , 2021, , 947-962.		0
39	Biorefinery approaches for integral use of microalgal biomass. , 2022, , 321-344.		0