JÃºlio Cesar De Carvalho

List of Publications by Year
in descending order

116 papers	3,446 citations	159525 30 h-index	161767 54 g-index
117 all docs	117 docs citations	117 times ranked	4090 citing authors

#	Article	IF	Citations
1	Potential carbon dioxide fixation by industrially important microalgae. Bioresource Technology, 2010, 101, 5892-5896.	4.8	420
2	Screening of microalgae with potential for biodiesel production and nutrient removal from treated domestic sewage. Applied Energy, 2011, 88, 3291-3294.	5.1	221
3	Downstream process development in biotechnological itaconic acid manufacturing. Applied Microbiology and Biotechnology, 2017, 101, 1-12.	1.7	182
4	Production of bio-ethanol from soybean molasses by Saccharomyces cerevisiae at laboratory, pilot and industrial scales. Bioresource Technology, 2008, 99, 8156-8163.	4.8	143
5	Technological trends and market perspectives for production of microbial oils rich in omega-3. Critical Reviews in Biotechnology, 2017, 37, 656-671.	5.1	109
6	Functional properties and health benefits of bioactive peptides derived fromSpirulina: A review. Food Reviews International, 2018, 34, 34-51.	4.3	108
7	Microalgal biomass pretreatment for integrated processing into biofuels, food, and feed. Bioresource Technology, 2020, 300, 122719.	4.8	105
8	Monascus: a Reality on the Production and Application of Microbial Pigments. Applied Biochemistry and Biotechnology, 2016, 178, 211-223.	1.4	92
9	Biopigments from Monascus: strains selection, citrinin production and color stability. Brazilian Archives of Biology and Technology, 2005, 48, 885-894.	0.5	86
10	Hydrogen: Current advances and patented technologies of its renewable production. Journal of Cleaner Production, 2021, 286, 124970.	4.6	83
11	Torularhodin and Torulene: Bioproduction, Properties and Prospective Applications in Food and Cosmetics - a Review. Brazilian Archives of Biology and Technology, 2015, 58, 278-288.	0.5	74
12	Study of phycocyanin production from Spirulina platensis under different light spectra. Brazilian Archives of Biology and Technology, 2011, 54, 675-682.	0.5	69
13	The behavior of kinetic parameters in production of pectinase and xylanase by solid-state fermentation. Bioresource Technology, 2011, 102, 10657-10662.	4.8	63
14	Effect of light on growth, pigment production and culture morphology of Monascus purpureus in solid-state fermentation. World Journal of Microbiology and Biotechnology, 2008, 24, 2671-2675.	1.7	61
15	Application of the biorefinery concept to produce l-lactic acid from the soybean vinasse at laboratory and pilot scale. Bioresource Technology, 2011, 102, 1765-1772.	4.8	61
16	Biorefinery integration of microalgae production into cassava processing industry: Potential and perspectives. Bioresource Technology, 2018, 247, 1165-1172.	4.8	59
17	Arthrospira maxima OF15 biomass cultivation at laboratory and pilot scale from sugarcane vinasse for potential biological new peptides production. Bioresource Technology, 2019, 273, 103-113.	4.8	59
18	Relation between growth, respirometric analysis and biopigments production from Monascus by solid-state fermentation. Biochemical Engineering Journal, 2006, 29, 262-269.	1.8	52

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19	Biohydrogen production in cassava processing wastewater using microbial consortia: Process optimization and kinetic analysis of the microbial community. Bioresource Technology, 2020, 309, 123331.	4.8	51
20	Co-Culture of Microalgae, Cyanobacteria, and Macromycetes for Exopolysaccharides Production: Process Preliminary Optimization and Partial Characterization. Applied Biochemistry and Biotechnology, 2012, 167, 1092-1106.	1.4	49
21	Bioeconomy and biofuels: the case of sugarcane ethanol in Brazil. Biofuels, Bioproducts and Biorefining, 2021, 15, 899-912.	1.9	47
22	Beyond sugar and ethanol: The future of sugarcane biorefineries in Brazil. Renewable and Sustainable Energy Reviews, 2022, 167, 112721.	8.2	44
23	Techno-economic analysis of downstream processes in itaconic acid production from fermentation broth. Journal of Cleaner Production, 2019, 206, 336-348.	4.6	42
24	Lignocellulosic biomass from agroâ€industrial residues in South America: current developments and perspectives. Biofuels, Bioproducts and Biorefining, 2019, 13, 1505-1519.	1.9	40
25	Current analysis and future perspective of reduction in worldwide greenhouse gases emissions by using first and second generation bioethanol in the transportation sector. Bioresource Technology Reports, 2019, 7, 100234.	1.5	40
26	Biological hydrogen production from palm oil mill effluent (POME) by anaerobic consortia and Clostridium beijerinckii. Journal of Biotechnology, 2020, 323, 17-23.	1.9	38
27	Solid-state fermentation technology and innovation for the production of agricultural and animal feed bioproducts. Systems Microbiology and Biomanufacturing, 2021, 1, 142-165.	1.5	38
28	Agro-industrial wastewater in a circular economy: Characteristics, impacts and applications for bioenergy and biochemicals. Bioresource Technology, 2021, 341, 125795.	4.8	37
29	Citric acid bioproduction and downstream processing: Status, opportunities, and challenges. Bioresource Technology, 2021, 320, 124426.	4.8	35
30	High-Throughput rRNA Gene Sequencing Reveals High and Complex Bacterial Diversity Associated with Brazilian Coffee Beans Fermentation. Food Technology and Biotechnology, 2018, 56, 90-95.	0.9	35
31	Biotechnological Production of Carotenoids and Their Applications in Food and Pharmaceutical Products. , 0, , .		33
32	Biological contamination and its chemical control in microalgal mass cultures. Applied Microbiology and Biotechnology, 2019, 103, 9345-9358.	1.7	33
33	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. Bioresource Technology, 2021, 320, 124370.	4.8	31
34	Current developments and challenges of green technologies for the valorization of liquid, solid, and gaseous wastes from sugarcane ethanol production. Journal of Hazardous Materials, 2021, 404, 124059.	6.5	30
35	In Vitro Probiotic Properties and DNA Protection Activity of Yeast and Lactic Acid Bacteria Isolated from A Honey-Based Kefir Beverage. Foods, 2019, 8, 485.	1.9	27
36	An updated review on bacterial community composition of traditional fermented milk products: what next-generation sequencing has revealed so far?. Critical Reviews in Food Science and Nutrition, 2022, 62, 1870-1889.	5.4	27

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37	Separation of Itaconic Acid from Aqueous Solution onto Ion-Exchange Resins. Journal of Chemical & Engineering Data, 2016, 61, 430-437.	1.0	25
38	Development of short chain fatty acid-based artificial neuron network tools applied to biohydrogen production. International Journal of Hydrogen Energy, 2020, 45, 5175-5181.	3.8	25
39	Solid-State Fermentation for the Production of Organic Acids. , 2018, , 415-434.		24
40	Influence of airflow intensity on phytase production by solid-state fermentation. Bioresource Technology, 2012, 118, 603-606.	4.8	23
41	Liquefied gas extraction: A new method for the recovery of terpenoids from agroindustrial and forest wastes. Journal of Supercritical Fluids, 2016, 110, 97-102.	1.6	23
42	Simultaneous cellulase production using domestic wastewater and bioprocess effluent treatment â€“ A biorefinery approach. Bioresource Technology, 2019, 276, 42-50.	4.8	23
43	Microalgal biorefineries: Integrated use of liquid and gaseous effluents from bioethanol industry for efficient biomass production. Bioresource Technology, 2019, 292, 121955.	4.8	22
44	Industrial production, patent landscape, and market trends of arachidonic acid-rich oil of Mortierella alpina. Biotechnology Research and Innovation, 2019, 3, 103-119.	0.3	22
45	The effect of hydrolysis and sterilization in biohydrogen production from cassava processing wastewater medium using anaerobic bacterial consortia. International Journal of Hydrogen Energy, 2019, 44, 25551-25564.	3.8	22
46	Technological mapping and trends in photobioreactors for the production of microalgae. World Journal of Microbiology and Biotechnology, 2020, 36, 42.	1.7	22
47	Effects of different culture media on physiological features and laboratory scale production cost of Dunaliella salina. Biotechnology Reports (Amsterdam, Netherlands), 2020, 27, e00508.	2.1	22
48	Concentration by ultrafiltration and stabilization of phytase produced by solid-state fermentation. Process Biochemistry, 2013, 48, 374-379.	1.8	21
49	The Antihypertensive, Antimicrobial and Anticancer Peptides from Arthrospira with Therapeutic Potential: A Mini Review. Current Molecular Medicine, 2020, 20, 593-606.	0.6	18
50	Microbial Pigments. , 2014, , 73-97.		17
51	Draft Genome Sequence of Pediococcus acidilactici Strain LPBC161, Isolated from Mature Coffee Cherries during Natural Fermentation. Microbiology Resource Announcements, 2019, 8, .	0.3	16
52	Respirometric Balance and Carbon Fixation of Industrially Important Algae. , 2014, , 67-84.		15
53	Culture media for mass production of microalgae. , 2019, , 33-50.		14
54	A critical techno-economic analysis of coffee processing utilizing a modern fermentation system: Implications for specialty coffee production. Food and Bioproducts Processing, 2021, 125, 14-21.	1.8	14

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55	Challenges in the production of second-generation organic acids (potential monomers for) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	2.9	14
56	Global cocoa fermentation microbiome: revealing new taxa and microbial functions by next generation sequencing technologies. World Journal of Microbiology and Biotechnology, 2021, 37, 118.	1.7	14
57	Microalgal strain selection for biofuel production. , 2019, , 51-66.		13
58	Media effects on laboratory scale production costs of Haematococcus pluvialis biomass. Bioresource Technology Reports, 2019, 7, 100236.	1.5	13
59	Production of arachidonic acid by Mortierella alpina using wastes from potato chips industry. Journal of Applied Microbiology, 2021, 130, 1592-1601.	1.4	13
60	Recovery of phytase produced by solid-state fermentation on citrus peel. Brazilian Archives of Biology and Technology, 2010, 53, 1487-1496.	0.5	12
61	Production and Application ofÂCitricÂAcid. , 2017, , 557-575.		12
62	Second-generation itaconic acid: An alternative product for biorefineries?. Bioresource Technology, 2020, 308, 123319.	4.8	12
63	Microbiological, physicochemical and sensory studies of coffee beans fermentation conducted in a yeast bioreactor model. Food Biotechnology, 2020, 34, 172-192.	0.6	12
64	Evaluation of poultry litter traditional composting process. Brazilian Archives of Biology and Technology, 2011, 54, 1053-1058.	0.5	11
65	Potential carbon fixation of industrially important microalgae. , 2019, , 67-88.		11
66	Production, characterization, and biological activity of a chitin-like EPS produced by Mortierella alpina under submerged fermentation. Carbohydrate Polymers, 2020, 247, 116716.	5.1	11
67	The Pretreatment Step in Lignocellulosic Biomass Conversion: Current Systems and New Biological Systems. , 2013, , 39-64.		10
68	CachaÃ§a and Rum. , 2017, , 451-468.		10
69	Harvesting Neochloris oleoabundans using commercial organic flocculants. Journal of Applied Phycology, 2018, 30, 2317-2324.	1.5	10
70	Integrating metagenetics and high-throughput screening for bioprospecting marine thraustochytrids producers of long-chain polyunsaturated fatty acids. Bioresource Technology, 2021, 333, 125176.	4.8	10
71	Monitoring fermentation parameters during phytase production in column-type bioreactor using a new data acquisition system. Bioprocess and Biosystems Engineering, 2010, 33, 1033-1041.	1.7	9
72	Advances in microalgal cell wall polysaccharides: a review focused on structure, production, and biological application. Critical Reviews in Biotechnology, 2021, , 1-16.	5.1	9

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73	Effect of forced aeration on citric acid production by Aspergillus sp. mutants in SSF. World Journal of Microbiology and Biotechnology, 2013, 29, 2317-2324.	1.7	8
74	Bioprospection of green microalgae native to ParanÃ¡, Brazil using a multi-criteria analysis: Potential for the production of lipids, proteins, and carotenoids. Bioresource Technology Reports, 2020, 10, 100398.	1.5	8
75	Production of astaxanthin by Haematococcus pluvialis: Lab processes to scale up including the cost considerations. , 2021, , 121-130.		8
76	Rice vinasse treatment by immobilized Synechococcus pevalekii and its effect on Dunaliella salina cultivation. Bioprocess and Biosystems Engineering, 2021, 44, 1477-1490.	1.7	8
77	Sugarcane: A Promising Source of Green Carbon in the Circular Bioeconomy. Sugar Tech, 2022, 24, 1230-1245.	0.9	8
78	Are Sugarcane Molasses Competitive Substrates for Bio-based Platform Chemicals?. Journal of Agricultural and Food Chemistry, 2020, 68, 4073-4074.	2.4	7
79	Growth Parameters of Agaricus brasiliensis Mycelium on Wheat Grains in Solid-state Fermentation. Biotechnology, 2012, 11, 144-153.	0.5	7
80	A biorefinery approach for spent coffee grounds valorization using pressurized fluid extraction to produce oil and bioproducts: A systematic review. Bioresource Technology Reports, 2022, 18, 101013.	1.5	7
81	Kinetics of the Solid-State Fermentation Process. , 2018, , 57-82.		6
82	Simulation of different biorefinery configuration including environmental, technical and economic assay using sugarcane bagasse. Journal of Cleaner Production, 2021, 316, 128162.	4.6	6
83	Mixotrophic Cultivation of Microalgae in Cassava Processing Wastewater for Simultaneous Treatment and Production of Lipid-Rich Biomass. Fuels, 2021, 2, 521-532.	1.3	6
84	Converting Sugars into Cannabinoidsâ€"The State-of-the-Art of Heterologous Production in Microorganisms. Fermentation, 2022, 8, 84.	1.4	6
85	Production of Pigments. , 2008, , 337-355.		5
86	Microbial Enzyme Factories. , 2016, , 1-22.		5
87	Microscale direct transesterification of microbial biomass with ethanol for screening of microorganisms by its fatty acid content. Brazilian Archives of Biology and Technology, 2019, 62, .	0.5	5
88	Bioprospecting lipid-producing microorganisms: From metagenomic-assisted isolation techniques to industrial application and innovations. Bioresource Technology, 2022, 346, 126455.	4.8	5
89	Roles and impacts of bioethanol and biodiesel on climate change mitigation. , 2022, , 373-400.		5
90	Analysis and glycosyl composition of the exopolysaccharide isolated from submerged fermentation of Ganoderma lucidum CG144. Acta Societatis Botanicorum Poloniae, 2014, 83, 239-241.	0.8	4

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91	Resistance of Neochloris oleoabundans to six terpenes applicable as green contamination control agents. Journal of Applied Phycology, 2022, 34, 261-267.	1.5	4
92	Cell Disruption and Isolation of Intracellular Products. , 2017, , 807-822.		3
93	Lignocellulosic Biorefinery for Value-Added Products: The Emerging Bioeconomy. , 2021, , 291-321.		3
94	Valorization of solid and liquid wastes from palm oil industry. , 2021, , 235-265.		3
95	Life-Cycle Assessment of Biofuels. Green Energy and Technology, 2016, , 485-500.	0.4	2
96	Production and Application ofÂPolylactides. , 2017, , 633-653.		2
97	Approaches for the Isolation and Purification of Fermentation Products. , 2017, , 783-805.		2
98	- Upstream Operations of Fermentation Processes. , 2013, , 100-113.		2
99	Development of a Culture Medium for Microalgae Production Based on Minimal Processing of Oil Palm Biomass Ash. Fermentation, 2022, 8, 55.	1.4	2
100	Application of enzymes in microbial fermentation of biomass wastes for biofuels and biochemicals production. , 2022, , 283-316.		2
101	Pretreatment Strategies to Enhance Value Addition of Agro-industrial Wastes. , 2014, , 29-49.		1
102	Systematically finding opportunities for product reuse the case of PET bottles. , 2017, , .		1
103	A non-waste strategy for enzymatic hydrolysis of cellulose recovered from domestic wastewater. Environmental Technology (United Kingdom), 2020, , 1-10.	1.2	1
104	A comparative study of extraction techniques for maximum recovery of bioactive compounds from Ganoderma lucidum spores. Revista Colombiana De Ciencias QuÃ¬mico FarmacÃ©uticas, 2020, 49, .	0.3	1
105	In vitro cytotoxic effect of a chitin-like polysaccharide produced by Mortierella alpina on adrenocortical carcinoma cells H295R, and its use as mitotane adjuvant. In Vitro Cellular and Developmental Biology - Animal, 2021, 57, 395-403.	0.7	1
106	Microbial Statins. , 2014, , 313-333.		1
107	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy. , 2022, , 69-94.		1
108	Downstream processing and formulation of microbial lipids. , 2022, , 261-287.		1

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109	- Laboratory and Industrial Bioreactors for Solid-State Fermentation. , 2013, , 206-225.		0
110	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy. , 2021, , 1-27.		0
111	Recovery and valorization of CO2 from the organic wastes fermentation. , 2021, , 947-962.		0
112	Indexing and Mapping Examples of Heuristics Compiled from TRIZ. Management and Industrial Engineering, 2019, , 187-206.	0.3	0
113	Technologies for Separation and Drying of Algal Biomass for Varied Applications. , 2019, , 241-250.		0
114	Intra-arterial pulmonary thrombolysis at the postoperative period of brain aneurysm clamping: case report. Revista Brasileira De Terapia Intensiva, 2008, 20, 318-20.	0.1	0
115	Biorefinery approaches for integral use of microalgal biomass. , 2022, , 321-344.		0
116	Lipids produced by microalgae and thraustochytrids. , 2022, , 191-217.		0