Jlio Cesar De Carvalho

List of Publications by Year in Descending Order

113 papers	2,321 citations	23 h-index	45 g-index
117 ext. papers	2,851 ext. citations	6 avg, IF	5.35 L-index

#	Paper	IF	Citations
113	Development of a Culture Medium for Microalgae Production Based on Minimal Processing of Oil Palm Biomass Ash. *Fermentation*, **2022**, 8, 55	4.7	0
112	Application of enzymes in microbial fermentation of biomass wastes for biofuels and biochemicals production **2022**, 283-316		
111	Roles and impacts of bioethanol and biodiesel on climate change mitigation **2022**, 373-400		2
110	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy **2022**, 69-94		
109	Challenges and Recent Progress in Seaweed Polysaccharides for Industrial Purposes **2022**, 411-431		0
108	Converting Sugars into Cannabinoids□he State-of-the-Art of Heterologous Production in Microorganisms. *Fermentation*, **2022**, 8, 84	4.7	0
107	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	4.1	1
106	Biorefinery approaches for integral use of microalgal biomass **2022**, 321-344		
105	Lipids produced by microalgae and thraustochytrids **2022**, 191-217		
104	Downstream processing and formulation of microbial lipids **2022**, 261-287		0
103	Bioprospecting lipid-producing microorganisms: From metagenomic-assisted isolation techniques to industrial application and innovations. *Bioresource Technology*, **2021**, 346, 126455	11	1
102	Mixotrophic Cultivation of Microalgae in Cassava Processing Wastewater for Simultaneous Treatment and Production of Lipid-Rich Biomass. *Fuels*, **2021**, 2, 521-532	2.3	1
101	Rice vinasse treatment by immobilized Synechococcus pevalekii and its effect on Dunaliella salina cultivation. *Bioprocess and Biosystems Engineering*, **2021**, 44, 1477-1490	3.7	4
100	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	2.6	1
99	Challenges in the production of second-generation organic acids (potential monomers for application in biopolymers). *Biomass and Bioenergy*, **2021**, 149, 106092	5.3	5
98	Global cocoa fermentation microbiome: revealing new taxa and microbial functions by next generation sequencing technologies. *World Journal of Microbiology and Biotechnology*, **2021**, 37, 118	4.4	3
97	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	11	13

96	Hydrogen: Current advances and patented technologies of its renewable production. *Journal of Cleaner Production*, **2021**, 286, 124970	10.3	27
95	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	12.8	17
94	Solid-state fermentation technology and innovation for the production of agricultural and animal feed bioproducts. *Systems Microbiology and Biomanufacturing*, **2021**, 1, 142-165		15
93	Citric acid bioproduction and downstream processing: Status, opportunities, and challenges. *Bioresource Technology*, **2021**, 320, 124426	11	14
92	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	4.9	2
91	Production of arachidonic acid by Mortierella alpina using wastes from potato chips industry. *Journal of Applied Microbiology*, **2021**, 130, 1592-1601	4.7	5
90	Lignocellulosic Biorefinery for Value-Added Products: The Emerging Bioeconomy **2021**, 291-321		1
89	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy **2021**, 1-27		
88	Production of astaxanthin by Haematococcus pluvialis: Lab processes to scale up including the cost considerations **2021**, 121-130		3
87	Recovery and valorization of CO2 from the organic wastes fermentation **2021**, 947-962		
86	Valorization of solid and liquid wastes from palm oil industry **2021**, 235-265		0
85	Bioeconomy and biofuels: the case of sugarcane ethanol in Brazil. *Biofuels, Bioproducts and Biorefining*, **2021**, 15, 899-912	5.3	15
84	Advances in microalgal cell wall polysaccharides: a review focused on structure, production, and biological application. *Critical Reviews in Biotechnology*, **2021**, 1-16	9.4	3
83	Integrating metagenetics and high-throughput screening for bioprospecting marine thraustochytrids producers of long-chain polyunsaturated fatty acids. *Bioresource Technology*, **2021**, 333, 125176	11	3
82	Simulation of different biorefinery configuration including environmental, technical and economic assay using sugarcane bagasse. *Journal of Cleaner Production*, **2021**, 316, 128162	10.3	2
81	Agro-industrial wastewater in a circular economy: Characteristics, impacts and applications for bioenergy and biochemicals. *Bioresource Technology*, **2021**, 341, 125795	11	4
80	Biological hydrogen production from palm oil mill effluent (POME) by anaerobic consortia and Clostridium beijerinckii. *Journal of Biotechnology*, **2020**, 323, 17-23	3.7	16
79	Are Sugarcane Molasses Competitive Substrates for Bio-based Platform Chemicals?. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 4073-4074	5.7	2

78	Technological mapping and trends in photobioreactors for the production of microalgae. *World Journal of Microbiology and Biotechnology*, **2020**, 36, 42	4.4	16
77	Production, characterization, and biological activity of a chitin-like EPS produced by Mortierella alpina under submerged fermentation. *Carbohydrate Polymers*, **2020**, 247, 116716	10.3	9
76	Bioprospection of green microalgae native to Paran□Brazil using a multi-criteria analysis: Potential for the production of lipids, proteins, and carotenoids. *Bioresource Technology Reports*, **2020**, 10, 100398	4.1	3
75	Second-generation itaconic acid: An alternative product for biorefineries?. *Bioresource Technology*, **2020**, 308, 123319	11	4
74	Biohydrogen production in cassava processing wastewater using microbial consortia: Process optimization and kinetic analysis of the microbial community. *Bioresource Technology*, **2020**, 309, 123331	11	29
73	The Antihypertensive, Antimicrobial and Anticancer Peptides from with Therapeutic Potential: A Mini Review. *Current Molecular Medicine*, **2020**, 20, 593-606	2.5	7
72	Effects of different culture media on physiological features and laboratory scale production cost of. *Biotechnology Reports (Amsterdam, Netherlands)*, **2020**, 27, e00508	5.3	10
71	Development of short chain fatty acid-based artificial neuron network tools applied to biohydrogen production. *International Journal of Hydrogen Energy*, **2020**, 45, 5175-5181	6.7	13
70	Microalgal biomass pretreatment for integrated processing into biofuels, food, and feed. *Bioresource Technology*, **2020**, 300, 122719	11	54
69	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* , **2020**, 1-20	11.5	8
68	A non-waste strategy for enzymatic hydrolysis of cellulose recovered from domestic wastewater. *Environmental Technology (United Kingdom)*, **2020**, 1-10	2.6	
67	Microbiological, physicochemical and sensory studies of coffee beans fermentation conducted in a yeast bioreactor model. *Food Biotechnology*, **2020**, 34, 172-192	2.2	5
66	Culture media for mass production of microalgae **2019**, 33-50		8
65	Potential carbon fixation of industrially important microalgae **2019**, 67-88		9
64	Microalgal strain selection for biofuel production **2019**, 51-66		11
63	Media effects on laboratory scale production costs of Haematococcus pluvialis biomass. *Bioresource Technology Reports*, **2019**, 7, 100236	4.1	9
62	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	4.1	26
61	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,	1.8	4

60	Draft Genome Sequence of Pediococcus acidilactici Strain LPBC161, Isolated from Mature Coffee Cherries during Natural Fermentation. *Microbiology Resource Announcements*, **2019**, 8,	1.3	6
59	Industrial production, patent landscape, and market trends of arachidonic acid-rich oil of Mortierella alpina. *Biotechnology Research and Innovation*, **2019**, 3, 103-119	10.1	13
58	Microalgal biorefineries: Integrated use of liquid and gaseous effluents from bioethanol industry for efficient biomass production. *Bioresource Technology*, **2019**, 292, 121955	11	11
57	Lignocellulosic biomass from agro-industrial residues in South America: current developments and perspectives. *Biofuels, Bioproducts and Biorefining*, **2019**, 13, 1505-1519	5.3	27
56	In Vitro Probiotic Properties and DNA Protection Activity of Yeast and Lactic Acid Bacteria Isolated from A Honey-Based Kefir Beverage. *Foods*, **2019**, 8,	4.9	10
55	Biological contamination and its chemical control in microalgal mass cultures. *Applied Microbiology and Biotechnology*, **2019**, 103, 9345-9358	5.7	19
54	Indexing and Mapping Examples of Heuristics Compiled from TRIZ. *Management and Industrial Engineering*, **2019**, 187-206	0.2	
53	Technologies for Separation and Drying of Algal Biomass for Varied Applications **2019**, 241-250		
52	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	6.7	14
51	Simultaneous cellulase production using domestic wastewater and bioprocess effluent treatment - A biorefinery approach. *Bioresource Technology*, **2019**, 276, 42-50	11	17
50	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	11	41
49	Techno-economic analysis of downstream processes in itaconic acid production from fermentation broth. *Journal of Cleaner Production*, **2019**, 206, 336-348	10.3	28
48	Harvesting Neochloris oleoabundans using commercial organic flocculants. *Journal of Applied Phycology*, **2018**, 30, 2317-2324	3.2	7
47	Functional properties and health benefits of bioactive peptides derived from Spirulina: A review. *Food Reviews International*, **2018**, 34, 34-51	5.5	70
46	Biorefinery integration of microalgae production into cassava processing industry: Potential and perspectives. *Bioresource Technology*, **2018**, 247, 1165-1172	11	42
45	Kinetics of the Solid-State Fermentation Process **2018**, 57-82		4
44	Solid-State Fermentation for the Production of Organic Acids **2018**, 415-434		16
43	High-Throughput rRNA Gene Sequencing Reveals High?and Complex Bacterial Diversity Associated with?Brazilian Coffee Bean Fermentation. *Food Technology and Biotechnology*, **2018**, 56, 90-95	2.1	18

42	Cachaa and Rum **2017**, 451-468		6
41	Biotechnological Production of Carotenoids and Their Applications in Food and Pharmaceutical Products **2017**,		18
40	Production and Application of Citric Acid **2017**, 557-575		10
39	Downstream process development in biotechnological itaconic acid manufacturing. *Applied Microbiology and Biotechnology*, **2017**, 101, 1-12	5.7	162
38	Technological trends and market perspectives for production of microbial oils rich in omega-3. *Critical Reviews in Biotechnology*, **2017**, 37, 656-671	9.4	76
37	Production and Application of Polylactides **2017**, 633-653		1
36	Systematically finding opportunities for product reuse the case of PET bottles **2017**,		1
35	Approaches for the Isolation and Purification of Fermentation Products **2017**, 783-805		2
34	Cell Disruption and Isolation of Intracellular Products **2017**, 807-822		3
33	Monascus: a Reality on the Production and Application of Microbial Pigments. *Applied Biochemistry and Biotechnology*, **2016**, 178, 211-23	3.2	66
32	Life-Cycle Assessment of Biofuels. *Green Energy and Technology*, **2016**, 485-500	0.6	1
31	Liquefied gas extraction: A new method for the recovery of terpenoids from agroindustrial and forest wastes. *Journal of Supercritical Fluids*, **2016**, 110, 97-102	4.2	19
30	Separation of Itaconic Acid from Aqueous Solution onto Ion-Exchange Resins. *Journal of Chemical & Engineering Data*, **2016**, 61, 430-437	2.8	19
29	Microbial Enzyme Factories **2016**, 1-22		4
28	Torularhodin and Torulene: Bioproduction, Properties and Prospective Applications in Food and Cosmetics - a Review. *Brazilian Archives of Biology and Technology*, **2015**, 58, 278-288	1.8	53
27	Pretreatment Strategies to Enhance Value Addition of Agro-industrial Wastes **2014**, 29-49		0
26	Respirometric Balance and Carbon Fixation of Industrially Important Algae **2014**, 67-84		11
25	Analysis and glycosyl composition of the exopolysaccharide isolated from submerged fermentation of Ganoderma lucidum CG144. *Acta Societatis Botanicorum Poloniae*, **2014**, 83, 239-241	1.5	4

24	Microbial Statins **2014**, 313-333		1
23	Microbial Pigments **2014**, 73-97		8
22	Effect of forced aeration on citric acid production by Aspergillus sp. mutants in SSF. *World Journal of Microbiology and Biotechnology*, **2013**, 29, 2317-24	4.4	8
21	Concentration by ultrafiltration and stabilization of phytase produced by solid-state fermentation. *Process Biochemistry*, **2013**, 48, 374-379	4.8	20
20	The Pretreatment Step in Lignocellulosic Biomass Conversion: Current Systems and New Biological Systems **2013**, 39-64		7
19	- Upstream Operations of Fermentation Processes **2013**, 100-113		2
18	Influence of airflow intensity on phytase production by solid-state fermentation. *Bioresource Technology*, **2012**, 118, 603-6	11	22
17	Co-culture of microalgae, cyanobacteria, and macromycetes for exopolysaccharides production: process preliminary optimization and partial characterization. *Applied Biochemistry and Biotechnology*, **2012**, 167, 1092-106	3.2	40
16	Growth Parameters of Agaricus brasiliensis Mycelium on Wheat Grains in Solid-state Fermentation. *Biotechnology*, **2012**, 11, 144-153	0.1	6
15	Evaluation of poultry litter traditional composting process. *Brazilian Archives of Biology and Technology*, **2011**, 54, 1053-1058	1.8	6
14	Study of phycocyanin production from Spirulina platensis under different light spectra. *Brazilian Archives of Biology and Technology*, **2011**, 54, 675-682	1.8	51
13	The behavior of kinetic parameters in production of pectinase and xylanase by solid-state fermentation. *Bioresource Technology*, **2011**, 102, 10657-62	11	56
12	Application of the biorefinery concept to produce L-lactic acid from the soybean vinasse at laboratory and pilot scale. *Bioresource Technology*, **2011**, 102, 1765-72	11	54
11	Screening of microalgae with potential for biodiesel production and nutrient removal from treated domestic sewage. *Applied Energy*, **2011**, 88, 3291-3294	10.7	187
10	Recovery of phytase produced by solid-state fermentation on citrus peel. *Brazilian Archives of Biology and Technology*, **2010**, 53, 1487-1496	1.8	9
9	Monitoring fermentation parameters during phytase production in column-type bioreactor using a new data acquisition system. *Bioprocess and Biosystems Engineering*, **2010**, 33, 1033-41	3.7	8
8	Potential carbon dioxide fixation by industrially important microalgae. *Bioresource Technology*, **2010**, 101, 5892-6	11	364
7	Production of Pigments **2008**, 337-355		3

6	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	4.4	49
5	Production of bio-ethanol from soybean molasses by Saccharomyces cerevisiae at laboratory, pilot and industrial scales. *Bioresource Technology*, **2008**, 99, 8156-63	11	121
4	Intra-arterial pulmonary thrombolysis at the postoperative period of brain aneurysm clamping: case report. *Revista Brasileira De Terapia Intensiva*, **2008**, 20, 318-20	1.2	
3	Relation between growth, respirometric analysis and biopigments production from Monascus by solid-state fermentation. *Biochemical Engineering Journal*, **2006**, 29, 262-269	4.2	42
2	Biopigments from Monascus: strains selection, citrinin production and color stability. *Brazilian Archives of Biology and Technology*, **2005**, 48, 885-894	1.8	71
1	Resistance of Neochloris oleoabundans to six terpenes applicable as green contamination control agents. *Journal of Applied Phycology*,1	3.2	0