

Julio Cesar De Carvalho

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Potential carbon dioxide fixation by industrially important microalgae. <i>Bioresource Technology</i> , 2010 , 101, 5892-6	11	364
112	Screening of microalgae with potential for biodiesel production and nutrient removal from treated domestic sewage. <i>Applied Energy</i> , 2011 , 88, 3291-3294	10.7	187
111	Downstream process development in biotechnological itaconic acid manufacturing. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 1-12	5.7	162
110	Production of bio-ethanol from soybean molasses by <i>Saccharomyces cerevisiae</i> at laboratory, pilot and industrial scales. <i>Bioresource Technology</i> , 2008 , 99, 8156-63	11	121
109	Technological trends and market perspectives for production of microbial oils rich in omega-3. <i>Critical Reviews in Biotechnology</i> , 2017 , 37, 656-671	9.4	76
108	Biopigments from <i>Monascus</i> : strains selection, citrinin production and color stability. <i>Brazilian Archives of Biology and Technology</i> , 2005 , 48, 885-894	1.8	71
107	Functional properties and health benefits of bioactive peptides derived from <i>Spirulina</i> : A review. <i>Food Reviews International</i> , 2018 , 34, 34-51	5.5	70
106	<i>Monascus</i> : a Reality on the Production and Application of Microbial Pigments. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 178, 211-23	3.2	66
105	The behavior of kinetic parameters in production of pectinase and xylanase by solid-state fermentation. <i>Bioresource Technology</i> , 2011 , 102, 10657-62	11	56
104	Application of the biorefinery concept to produce L-lactic acid from the soybean vinasse at laboratory and pilot scale. <i>Bioresource Technology</i> , 2011 , 102, 1765-72	11	54
103	Microalgal biomass pretreatment for integrated processing into biofuels, food, and feed. <i>Bioresource Technology</i> , 2020 , 300, 122719	11	54
102	Torularhodin and Torulene: Bioproduction, Properties and Prospective Applications in Food and Cosmetics - a Review. <i>Brazilian Archives of Biology and Technology</i> , 2015 , 58, 278-288	1.8	53
101	Study of phycocyanin production from <i>Spirulina platensis</i> under different light spectra. <i>Brazilian Archives of Biology and Technology</i> , 2011 , 54, 675-682	1.8	51
100	Effect of light on growth, pigment production and culture morphology of <i>Monascus purpureus</i> in solid-state fermentation. <i>World Journal of Microbiology and Biotechnology</i> , 2008 , 24, 2671-2675	4.4	49
99	Biorefinery integration of microalgae production into cassava processing industry: Potential and perspectives. <i>Bioresource Technology</i> , 2018 , 247, 1165-1172	11	42
98	Relation between growth, respirometric analysis and biopigments production from <i>Monascus</i> by solid-state fermentation. <i>Biochemical Engineering Journal</i> , 2006 , 29, 262-269	4.2	42
97	<i>Arthrospira maxima</i> OF15 biomass cultivation at laboratory and pilot scale from sugarcane vinasse for potential biological new peptides production. <i>Bioresource Technology</i> , 2019 , 273, 103-113	11	41

96	Co-culture of microalgae, cyanobacteria, and macromycetes for exopolysaccharides production: process preliminary optimization and partial characterization. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 167, 1092-106	3.2	40
95	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 ¹¹		29
94	Techno-economic analysis of downstream processes in itaconic acid production from fermentation broth. <i>Journal of Cleaner Production</i> , 2019 , 206, 336-348	10.3	28
93	Lignocellulosic biomass from agro-industrial residues in South America: current developments and perspectives. <i>Biofuels, Bioproducts and Biorefining</i> , 2019 , 13, 1505-1519	5.3	27
92	Hydrogen: Current advances and patented technologies of its renewable production. <i>Journal of Cleaner Production</i> , 2021 , 286, 124970	10.3	27
91	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	4.1	26
90	Influence of airflow intensity on phytase production by solid-state fermentation. <i>Bioresource Technology</i> , 2012 , 118, 603-6	11	22
89	Concentration by ultrafiltration and stabilization of phytase produced by solid-state fermentation. <i>Process Biochemistry</i> , 2013 , 48, 374-379	4.8	20
88	Liquefied gas extraction: A new method for the recovery of terpenoids from agroindustrial and forest wastes. <i>Journal of Supercritical Fluids</i> , 2016 , 110, 97-102	4.2	19
87	Separation of Itaconic Acid from Aqueous Solution onto Ion-Exchange Resins. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 430-437	2.8	19
86	Biological contamination and its chemical control in microalgal mass cultures. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 9345-9358	5.7	19
85	Biotechnological Production of Carotenoids and Their Applications in Food and Pharmaceutical Products 2017 ,		18
84	High-Throughput rRNA Gene Sequencing Reveals High and Complex Bacterial Diversity Associated with Brazilian Coffee Bean Fermentation. <i>Food Technology and Biotechnology</i> , 2018 , 56, 90-95	2.1	18
83	Simultaneous cellulase production using domestic wastewater and bioprocess effluent treatment - A biorefinery approach. <i>Bioresource Technology</i> , 2019 , 276, 42-50	11	17
82	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 ^{12,8}		17
81	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	3.7	16
80	Technological mapping and trends in photobioreactors for the production of microalgae. <i>World Journal of Microbiology and Biotechnology</i> , 2020 , 36, 42	4.4	16
79	Solid-State Fermentation for the Production of Organic Acids 2018 , 415-434		16

78	Solid-state fermentation technology and innovation for the production of agricultural and animal feed bioproducts. <i>Systems Microbiology and Biomanufacturing</i> , 2021 , 1, 142-165		15
77	Bioeconomy and biofuels: the case of sugarcane ethanol in Brazil. <i>Biofuels, Bioproducts and Biorefining</i> , 2021 , 15, 899-912	5.3	15
76	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	6.7	14
75	Citric acid bioproduction and downstream processing: Status, opportunities, and challenges. <i>Bioresource Technology</i> , 2021 , 320, 124426	11	14
74	Industrial production, patent landscape, and market trends of arachidonic acid-rich oil of <i>Mortierella alpina</i> . <i>Biotechnology Research and Innovation</i> , 2019 , 3, 103-119	10.1	13
73	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	6.7	13
72	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	11	13
71	Microalgal strain selection for biofuel production 2019 , 51-66		11
70	Microalgal biorefineries: Integrated use of liquid and gaseous effluents from bioethanol industry for efficient biomass production. <i>Bioresource Technology</i> , 2019 , 292, 121955	11	11
69	Respirometric Balance and Carbon Fixation of Industrially Important Algae 2014 , 67-84		11
68	In Vitro Probiotic Properties and DNA Protection Activity of Yeast and Lactic Acid Bacteria Isolated from A Honey-Based Kefir Beverage. <i>Foods</i> , 2019 , 8,	4.9	10
67	Production and Application of Citric Acid 2017 , 557-575		10
66	Effects of different culture media on physiological features and laboratory scale production cost of. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020 , 27, e00508	5.3	10
65	Potential carbon fixation of industrially important microalgae 2019 , 67-88		9
64	Media effects on laboratory scale production costs of <i>Haematococcus pluvialis</i> biomass. <i>Bioresource Technology Reports</i> , 2019 , 7, 100236	4.1	9
63	Production, characterization, and biological activity of a chitin-like EPS produced by <i>Mortierella alpina</i> under submerged fermentation. <i>Carbohydrate Polymers</i> , 2020 , 247, 116716	10.3	9
62	Recovery of phytase produced by solid-state fermentation on citrus peel. <i>Brazilian Archives of Biology and Technology</i> , 2010 , 53, 1487-1496	1.8	9
61	Culture media for mass production of microalgae 2019 , 33-50		8

60	Effect of forced aeration on citric acid production by <i>Aspergillus</i> sp. mutants in SSF. <i>World Journal of Microbiology and Biotechnology</i> , 2013 , 29, 2317-24	4.4	8
59	Monitoring fermentation parameters during phytase production in column-type bioreactor using a new data acquisition system. <i>Bioprocess and Biosystems Engineering</i> , 2010 , 33, 1033-41	3.7	8
58	An updated review on bacterial community composition of traditional fermented milk products: what next-generation sequencing has revealed so far?. <i>Critical Reviews in Food Science and Nutrition</i> , 2020 , 1-20	11.5	8
57	Microbial Pigments 2014 , 73-97		8
56	Harvesting <i>Neochloris oleoabundans</i> using commercial organic flocculants. <i>Journal of Applied Phycology</i> , 2018 , 30, 2317-2324	3.2	7
55	The Pretreatment Step in Lignocellulosic Biomass Conversion: Current Systems and New Biological Systems 2013 , 39-64		7
54	The Antihypertensive, Antimicrobial and Anticancer Peptides from with Therapeutic Potential: A Mini Review. <i>Current Molecular Medicine</i> , 2020 , 20, 593-606	2.5	7
53	Draft Genome Sequence of <i>Pediococcus acidilactici</i> Strain LPBC161, Isolated from Mature Coffee Cherries during Natural Fermentation. <i>Microbiology Resource Announcements</i> , 2019 , 8,	1.3	6
52	Cachaça and Rum 2017 , 451-468		6
51	Evaluation of poultry litter traditional composting process. <i>Brazilian Archives of Biology and Technology</i> , 2011 , 54, 1053-1058	1.8	6
50	Growth Parameters of <i>Agaricus brasiliensis</i> Mycelium on Wheat Grains in Solid-state Fermentation. <i>Biotechnology</i> , 2012 , 11, 144-153	0.1	6
49	Challenges in the production of second-generation organic acids (potential monomers for application in biopolymers). <i>Biomass and Bioenergy</i> , 2021 , 149, 106092	5.3	5
48	Microbiological, physicochemical and sensory studies of coffee beans fermentation conducted in a yeast bioreactor model. <i>Food Biotechnology</i> , 2020 , 34, 172-192	2.2	5
47	Production of arachidonic acid by <i>Mortierella alpina</i> using wastes from potato chips industry. <i>Journal of Applied Microbiology</i> , 2021 , 130, 1592-1601	4.7	5
46	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,	1.8	4
45	Second-generation itaconic acid: An alternative product for biorefineries?. <i>Bioresource Technology</i> , 2020 , 308, 123319	11	4
44	Kinetics of the Solid-State Fermentation Process 2018 , 57-82		4
43	Analysis and glycosyl composition of the exopolysaccharide isolated from submerged fermentation of <i>Ganoderma lucidum</i> CG144. <i>Acta Societatis Botanicorum Poloniae</i> , 2014 , 83, 239-241	1.5	4

42	Rice vinasse treatment by immobilized <i>Synechococcus pevalekii</i> and its effect on <i>Dunaliella salina</i> cultivation. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 44, 1477-1490	3-7	4
41	Microbial Enzyme Factories 2016 , 1-22		4
40	Agro-industrial wastewater in a circular economy: Characteristics, impacts and applications for bioenergy and biochemicals. <i>Bioresource Technology</i> , 2021 , 341, 125795	11	4
39	Bioprospection of green microalgae native to Paraná-Brazil using a multi-criteria analysis: Potential for the production of lipids, proteins, and carotenoids. <i>Bioresource Technology Reports</i> , 2020 , 10, 100398 ^{4.1}		3
38	Cell Disruption and Isolation of Intracellular Products 2017 , 807-822		3
37	Production of Pigments 2008 , 337-355		3
36	Global cocoa fermentation microbiome: revealing new taxa and microbial functions by next generation sequencing technologies. <i>World Journal of Microbiology and Biotechnology</i> , 2021 , 37, 118	4-4	3
35	Production of astaxanthin by <i>Haematococcus pluvialis</i> : Lab processes to scale up including the cost considerations 2021 , 121-130		3
34	Advances in microalgal cell wall polysaccharides: a review focused on structure, production, and biological application. <i>Critical Reviews in Biotechnology</i> , 2021 , 1-16	9-4	3
33	Integrating metagenetics and high-throughput screening for bioprospecting marine thraustochytrids producers of long-chain polyunsaturated fatty acids. <i>Bioresource Technology</i> , 2021 , 333, 125176	11	3
32	Are Sugarcane Molasses Competitive Substrates for Bio-based Platform Chemicals?. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 4073-4074	5-7	2
31	Approaches for the Isolation and Purification of Fermentation Products 2017 , 783-805		2
30	Roles and impacts of bioethanol and biodiesel on climate change mitigation 2022 , 373-400		2
29	- Upstream Operations of Fermentation Processes 2013 , 100-113		2
28	A critical techno-economic analysis of coffee processing utilizing a modern fermentation system: Implications for specialty coffee production. <i>Food and Bioprocess Processing</i> , 2021 , 125, 14-21	4-9	2
27	Simulation of different biorefinery configuration including environmental, technical and economic assay using sugarcane bagasse. <i>Journal of Cleaner Production</i> , 2021 , 316, 128162	10-3	2
26	Life-Cycle Assessment of Biofuels. <i>Green Energy and Technology</i> , 2016 , 485-500	0-6	1
25	Production and Application of Polylactides 2017 , 633-653		1

24	Systematically finding opportunities for product reuse the case of PET bottles 2017 ,		1
23	Bioprospecting lipid-producing microorganisms: From metagenomic-assisted isolation techniques to industrial application and innovations. <i>Bioresource Technology</i> , 2021 , 346, 126455	11	1
22	Mixotrophic Cultivation of Microalgae in Cassava Processing Wastewater for Simultaneous Treatment and Production of Lipid-Rich Biomass. <i>Fuels</i> , 2021 , 2, 521-532	2.3	1
21	Microbial Statins 2014 , 313-333		1
20	In vitro cytotoxic effect of a chitin-like polysaccharide produced by <i>Mortierella alpina</i> on adrenocortical carcinoma cells H295R, and its use as mitotane adjuvant. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2021 , 57, 395-403	2.6	1
19	Lignocellulosic Biorefinery for Value-Added Products: The Emerging Bioeconomy 2021 , 291-321		1
18	A biorefinery approach for spent coffee grounds valorization using pressurized fluid extraction to produce oil and bioproducts: A systematic review. <i>Bioresource Technology Reports</i> , 2022 , 18, 101013	4.1	1
17	Pretreatment Strategies to Enhance Value Addition of Agro-industrial Wastes 2014 , 29-49		0
16	Development of a Culture Medium for Microalgae Production Based on Minimal Processing of Oil Palm Biomass Ash. <i>Fermentation</i> , 2022 , 8, 55	4.7	0
15	Resistance of <i>Neochloris oleoabundans</i> to six terpenes applicable as green contamination control agents. <i>Journal of Applied Phycology</i> , 1	3.2	0
14	Valorization of solid and liquid wastes from palm oil industry 2021 , 235-265		0
13	Challenges and Recent Progress in Seaweed Polysaccharides for Industrial Purposes 2022 , 411-431		0
12	Converting Sugars into Cannabinoids The State-of-the-Art of Heterologous Production in Microorganisms. <i>Fermentation</i> , 2022 , 8, 84	4.7	0
11	Downstream processing and formulation of microbial lipids 2022 , 261-287		0
10	Application of enzymes in microbial fermentation of biomass wastes for biofuels and biochemicals production 2022 , 283-316		0
9	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy 2022 , 69-94		0
8	Indexing and Mapping Examples of Heuristics Compiled from TRIZ. <i>Management and Industrial Engineering</i> , 2019 , 187-206	0.2	
7	Technologies for Separation and Drying of Algal Biomass for Varied Applications 2019 , 241-250		

- 6 A non-waste strategy for enzymatic hydrolysis of cellulose recovered from domestic wastewater. *Environmental Technology (United Kingdom)*, **2020**, 1-10 2.6
- 5 Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy **2021**, 1-27
- 4 Recovery and valorization of CO₂ from the organic wastes fermentation **2021**, 947-962
- 3 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
- 2 Biorefinery approaches for integral use of microalgal biomass **2022**, 321-344
- 1 Lipids produced by microalgae and thraustochytrids **2022**, 191-217