

Jãolio Cesar De Carvalho

List of Publications by Year in descending order

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Version: 2024-02-01

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	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> , 2022, 62, 1870-1889.	5.4	27
2	Resistance of <i>Neochloris oleoabundans</i> to six terpenes applicable as green contamination control agents. <i>Journal of Applied Phycology</i> , 2022, 34, 261-267.	1.5	4
3	Bioprospecting lipid-producing microorganisms: From metagenomic-assisted isolation techniques to industrial application and innovations. <i>Bioresource Technology</i> , 2022, 346, 126455.	4.8	5
4	Development of a Culture Medium for Microalgae Production Based on Minimal Processing of Oil Palm Biomass Ash. <i>Fermentation</i> , 2022, 8, 55.	1.4	2
5	Application of enzymes in microbial fermentation of biomass wastes for biofuels and biochemicals production. , 2022, , 283-316.		2
6	Roles and impacts of bioethanol and biodiesel on climate change mitigation. , 2022, , 373-400.		5
7	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy. , 2022, , 69-94.		1
8	Converting Sugars into Cannabinoidsâ€”The State-of-the-Art of Heterologous Production in Microorganisms. <i>Fermentation</i> , 2022, 8, 84.	1.4	6
9	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.	1.5	7
10	Biorefinery approaches for integral use of microalgal biomass. , 2022, , 321-344.		0
11	Sugarcane: A Promising Source of Green Carbon in the Circular Bioeconomy. <i>Sugar Tech</i> , 2022, 24, 1230-1245.	0.9	8
12	Beyond sugar and ethanol: The future of sugarcane biorefineries in Brazil. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112721.	8.2	44
13	Lipids produced by microalgae and thraustochytrids. , 2022, , 191-217.		0
14	Downstream processing and formulation of microbial lipids. , 2022, , 261-287.		1
15	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.	4.8	31
16	Hydrogen: Current advances and patented technologies of its renewable production. <i>Journal of Cleaner Production</i> , 2021, 286, 124970.	4.6	83
17	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.	6.5	30
18	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.	1.5	38

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19	Citric acid bioproduction and downstream processing: Status, opportunities, and challenges. <i>Bioresource Technology</i> , 2021, 320, 124426.	4.8	35
20	A critical techno-economic analysis of coffee processing utilizing a modern fermentation system: Implications for specialty coffee production. <i>Food and Bioproducts Processing</i> , 2021, 125, 14-21.	1.8	14
21	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.	1.4	13
22	Lignocellulosic Biorefinery for Value-Added Products: The Emerging Bioeconomy. , 2021, , 291-321.		3
23	Pretreatments of Solid Wastes for Anaerobic Digestion and Its Importance for the Circular Economy. , 2021, , 1-27.		0
24	Production of astaxanthin by <i>Haematococcus pluvialis</i> : Lab processes to scale up including the cost considerations. , 2021, , 121-130.		8
25	Recovery and valorization of CO ₂ from the organic wastes fermentation. , 2021, , 947-962.		0
26	Valorization of solid and liquid wastes from palm oil industry. , 2021, , 235-265.		3
27	Bioeconomy and biofuels: the case of sugarcane ethanol in Brazil. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 899-912.	1.9	47
28	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.	1.7	8
29	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.	0.7	1
30	Challenges in the production of second-generation organic acids (potential monomers for) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td	2.9	14
31	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.	1.7	14
32	Advances in microalgal cell wall polysaccharides: a review focused on structure, production, and biological application. <i>Critical Reviews in Biotechnology</i> , 2021, , 1-16.	5.1	9
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.	4.8	10
34	Simulation of different biorefinery configuration including environmental, technical and economic assay using sugarcane bagasse. <i>Journal of Cleaner Production</i> , 2021, 316, 128162.	4.6	6
35	Agro-industrial wastewater in a circular economy: Characteristics, impacts and applications for bioenergy and biochemicals. <i>Bioresource Technology</i> , 2021, 341, 125795.	4.8	37
36	Mixotrophic Cultivation of Microalgae in Cassava Processing Wastewater for Simultaneous Treatment and Production of Lipid-Rich Biomass. <i>Fuels</i> , 2021, 2, 521-532.	1.3	6

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37	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.	3.8	25
38	Microalgal biomass pretreatment for integrated processing into biofuels, food, and feed. <i>Bioresource Technology</i> , 2020, 300, 122719.	4.8	105
39	A non-waste strategy for enzymatic hydrolysis of cellulose recovered from domestic wastewater. <i>Environmental Technology (United Kingdom)</i> , 2020, , 1-10.	1.2	1
40	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.	1.9	38
41	Are Sugarcane Molasses Competitive Substrates for Bio-based Platform Chemicals?. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4073-4074.	2.4	7
42	Technological mapping and trends in photobioreactors for the production of microalgae. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 42.	1.7	22
43	A comparative study of extraction techniques for maximum recovery of bioactive compounds from <i>Ganoderma lucidum</i> spores. <i>Revista Colombiana De Ciencias Químico Farmacéuticas</i> , 2020, 49, .	0.3	1
44	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.	5.1	11
45	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.	1.5	8
46	Second-generation itaconic acid: An alternative product for biorefineries?. <i>Bioresource Technology</i> , 2020, 308, 123319.	4.8	12
47	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.	4.8	51
48	Microbiological, physicochemical and sensory studies of coffee beans fermentation conducted in a yeast bioreactor model. <i>Food Biotechnology</i> , 2020, 34, 172-192.	0.6	12
49	Effects of different culture media on physiological features and laboratory scale production cost of <i>Dunaliella salina</i> . <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020, 27, e00508.	2.1	22
50	The Antihypertensive, Antimicrobial and Anticancer Peptides from <i>Arthrospira</i> with Therapeutic Potential: A Mini Review. <i>Current Molecular Medicine</i> , 2020, 20, 593-606.	0.6	18
51	Microalgal biorefineries: Integrated use of liquid and gaseous effluents from bioethanol industry for efficient biomass production. <i>Bioresource Technology</i> , 2019, 292, 121955.	4.8	22
52	Lignocellulosic biomass from agro-industrial residues in South America: current developments and perspectives. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 1505-1519.	1.9	40
53	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, 485.	1.9	27
54	Biological contamination and its chemical control in microalgal mass cultures. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 9345-9358.	1.7	33

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55	Culture media for mass production of microalgae. , 2019, , 33-50.		14
56	Potential carbon fixation of industrially important microalgae. , 2019, , 67-88.		11
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	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
60	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
61	Draft Genome Sequence of Pediococcus acidilactici Strain LPBC161, Isolated from Mature Coffee Cherries during Natural Fermentation. Microbiology Resource Announcements, 2019, 8, .	0.3	16
62	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
63	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
64	Simultaneous cellulase production using domestic wastewater and bioprocess effluent treatment – A biorefinery approach. Bioresource Technology, 2019, 276, 42-50.	4.8	23
65	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
66	Techno-economic analysis of downstream processes in itaconic acid production from fermentation broth. Journal of Cleaner Production, 2019, 206, 336-348.	4.6	42
67	Indexing and Mapping Examples of Heuristics Compiled from TRIZ. Management and Industrial Engineering, 2019, , 187-206.	0.3	0
68	Technologies for Separation and Drying of Algal Biomass for Varied Applications. , 2019, , 241-250.		0
69	Harvesting Neochloris oleoabundans using commercial organic flocculants. Journal of Applied Phycology, 2018, 30, 2317-2324.	1.5	10
70	Functional properties and health benefits of bioactive peptides derived from <i>Spirulina</i> : A review. Food Reviews International, 2018, 34, 34-51.	4.3	108
71	Biorefinery integration of microalgae production into cassava processing industry: Potential and perspectives. Bioresource Technology, 2018, 247, 1165-1172.	4.8	59
72	Kinetics of the Solid-State Fermentation Process. , 2018, , 57-82.		6

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73	Solid-State Fermentation for the Production of Organic Acids. , 2018, , 415-434.		24
74	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
75	Production and Application of Citric Acid. , 2017, , 557-575.		12
76	Downstream process development in biotechnological itaconic acid manufacturing. Applied Microbiology and Biotechnology, 2017, 101, 1-12.	1.7	182
77	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
78	Production and Application of Polylactides. , 2017, , 633-653.		2
79	Systematically finding opportunities for product reuse the case of PET bottles. , 2017, , .		1
80	Approaches for the Isolation and Purification of Fermentation Products. , 2017, , 783-805.		2
81	Cell Disruption and Isolation of Intracellular Products. , 2017, , 807-822.		3
82	Cachaça and Rum. , 2017, , 451-468.		10
83	Microbial Enzyme Factories. , 2016, , 1-22.		5
84	Life-Cycle Assessment of Biofuels. Green Energy and Technology, 2016, , 485-500.	0.4	2
85	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
86	Separation of Itaconic Acid from Aqueous Solution onto Ion-Exchange Resins. Journal of Chemical & Engineering Data, 2016, 61, 430-437.	1.0	25
87	Monascus: a Reality on the Production and Application of Microbial Pigments. Applied Biochemistry and Biotechnology, 2016, 178, 211-223.	1.4	92
88	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
89	Pretreatment Strategies to Enhance Value Addition of Agro-industrial Wastes. , 2014, , 29-49.		1
90	Respirometric Balance and Carbon Fixation of Industrially Important Algae. , 2014, , 67-84.		15

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91	Microbial Pigments. , 2014, , 73-97.		17
92	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.	0.8	4
93	Microbial Statins. , 2014, , 313-333.		1
94	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, 2317-2324.	1.7	8
95	Concentration by ultrafiltration and stabilization of phytase produced by solid-state fermentation. <i>Process Biochemistry</i> , 2013, 48, 374-379.	1.8	21
96	The Pretreatment Step in Lignocellulosic Biomass Conversion: Current Systems and New Biological Systems. , 2013, , 39-64.		10
97	- Laboratory and Industrial Bioreactors for Solid-State Fermentation. , 2013, , 206-225.		0
98	- Upstream Operations of Fermentation Processes. , 2013, , 100-113.		2
99	Influence of airflow intensity on phytase production by solid-state fermentation. <i>Bioresource Technology</i> , 2012, 118, 603-606.	4.8	23
100	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.	1.4	49
101	Growth Parameters of <i>Agaricus brasiliensis</i> Mycelium on Wheat Grains in Solid-state Fermentation. <i>Biotechnology</i> , 2012, 11, 144-153.	0.5	7
102	Evaluation of poultry litter traditional composting process. <i>Brazilian Archives of Biology and Technology</i> , 2011, 54, 1053-1058.	0.5	11
103	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.	0.5	69
104	The behavior of kinetic parameters in production of pectinase and xylanase by solid-state fermentation. <i>Bioresource Technology</i> , 2011, 102, 10657-10662.	4.8	63
105	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, 1765-1772.	4.8	61
106	Screening of microalgae with potential for biodiesel production and nutrient removal from treated domestic sewage. <i>Applied Energy</i> , 2011, 88, 3291-3294.	5.1	221
107	Monitoring fermentation parameters during phytase production in column-type bioreactor using a new data acquisition system. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 1033-1041.	1.7	9
108	Potential carbon dioxide fixation by industrially important microalgae. <i>Bioresource Technology</i> , 2010, 101, 5892-5896.	4.8	420

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109	Recovery of phytase produced by solid-state fermentation on citrus peel. Brazilian Archives of Biology and Technology, 2010, 53, 1487-1496.	0.5	12
110	Effect of light on growth, pigment production and culture morphology of <i>Monascus purpureus</i> in solid-state fermentation. World Journal of Microbiology and Biotechnology, 2008, 24, 2671-2675.	1.7	61
111	Production of bio-ethanol from soybean molasses by <i>Saccharomyces cerevisiae</i> at laboratory, pilot and industrial scales. Bioresource Technology, 2008, 99, 8156-8163.	4.8	143
112	Production of Pigments. , 2008, , 337-355.		5
113	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
114	Relation between growth, respirometric analysis and biopigments production from <i>Monascus</i> by solid-state fermentation. Biochemical Engineering Journal, 2006, 29, 262-269.	1.8	52
115	Biopigments from <i>Monascus</i> : strains selection, citrinin production and color stability. Brazilian Archives of Biology and Technology, 2005, 48, 885-894.	0.5	86
116	Biotechnological Production of Carotenoids and Their Applications in Food and Pharmaceutical Products. , 0, , .		33