Michele G Morais

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56 3,557 31 129 h-index g-index citations papers 6.07 135 4,331 4.9 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
129	Biofixation of carbon dioxide by Spirulina sp. and Scenedesmus obliquus cultivated in a three-stage serial tubular photobioreactor. <i>Journal of Biotechnology</i> , 2007 , 129, 439-45	3.7	422
128	Isolation and selection of microalgae from coal fired thermoelectric power plant for biofixation of carbon dioxide. <i>Energy Conversion and Management</i> , 2007 , 48, 2169-2173	10.6	259
127	Carbon dioxide fixation by Chlorella kessleri, C. vulgaris, Scenedesmus obliquus and Spirulina sp. cultivated in flasks and vertical tubular photobioreactors. <i>Biotechnology Letters</i> , 2007 , 29, 1349-52	3	213
126	The role of biochemical engineering in the production of biofuels from microalgae. <i>Bioresource Technology</i> , 2011 , 102, 2-9	11	186
125	Microalgae as a new source of bioactive compounds in food supplements. <i>Current Opinion in Food Science</i> , 2016 , 7, 73-77	9.8	158
124	Biologically Active Metabolites Synthesized by Microalgae. <i>BioMed Research International</i> , 2015 , 2015, 835761	3	154
123	Spirulina for snack enrichment: Nutritional, physical and sensory evaluations. <i>LWT - Food Science and Technology</i> , 2018 , 90, 270-276	5.4	84
122	Microalgae as source of polyhydroxyalkanoates (PHAs) - A review. <i>International Journal of Biological Macromolecules</i> , 2019 , 131, 536-547	7.9	80
121	Pilot scale semicontinuous production of Spirulina biomass in southern Brazil. <i>Aquaculture</i> , 2009 , 294, 60-64	4.4	71
120	Influence of nitrogen on growth, biomass composition, production, and properties of polyhydroxyalkanoates (PHAs) by microalgae. <i>International Journal of Biological Macromolecules</i> , 2018 , 116, 552-562	7.9	62
119	Preparation of nanofibers containing the microalga Spirulina (Arthrospira). <i>Bioresource Technology</i> , 2010 , 101, 2872-6	11	62
118	Isolation and characterization of a new Arthrospira strain. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2008 , 63, 144-50	1.7	58
117	Development of electrospun nanofibers containing chitosan/PEO blend and phenolic compounds with antibacterial activity. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 800-806	7.9	57
116	Operational and economic aspects of Spirulina-based biorefinery. <i>Bioresource Technology</i> , 2019 , 292, 121946	11	54
115	Biological applications of nanobiotechnology. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 10	07:317	54
114	Potential of microalgae as biopesticides to contribute to sustainable agriculture and environmental development. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2019 , 54, 366-375	2.2	50
113	Ultrafine fibers of zein and anthocyanins as natural pH indicator. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 2735-2741	4.3	50

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112	Outdoor pilot-scale cultivation of Spirulina sp. LEB-18 in different geographic locations for evaluating its growth and chemical composition. <i>Bioresource Technology</i> , 2018 , 256, 86-94	11	47
111	Phycocyanin from Microalgae: Properties, Extraction and Purification, with Some Recent Applications. <i>Industrial Biotechnology</i> , 2018 , 14, 30-37	1.3	46
110	Spirulina cultivated under different light emitting diodes: Enhanced cell growth and phycocyanin production. <i>Bioresource Technology</i> , 2018 , 256, 38-43	11	43
109	Pentoses and light intensity increase the growth and carbohydrate production and alter the protein profile of Chlorella minutissima. <i>Bioresource Technology</i> , 2017 , 238, 248-253	11	37
108	A new biomaterial of nanofibers with the microalga Spirulina as scaffolds to cultivate with stem cells for use in tissue engineering. <i>Journal of Biomedical Nanotechnology</i> , 2013 , 9, 710-8	4	37
107	Microalgal biorefinery from CO2 and the effects under the Blue Economy. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 99, 58-65	16.2	37
106	Development of pH indicator from PLA/PEO ultrafine fibers containing pigment of microalgae origin. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1855-1862	7.9	36
105	Antioxidant ultrafine fibers developed with microalga compounds using a free surface electrospinning. <i>Food Hydrocolloids</i> , 2019 , 93, 131-136	10.6	35
104	Polyhydroxybutyrate and phenolic compounds microalgae electrospun nanofibers: A novel nanomaterial with antibacterial activity. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 1008-1014	7.9	34
103	Development of a new nanofiber scaffold for use with stem cells in a third degree burn animal model. <i>Burns</i> , 2014 , 40, 1650-60	2.3	34
102	Biological effects of Spirulina (Arthrospira) biopolymers and biomass in the development of nanostructured scaffolds. <i>BioMed Research International</i> , 2014 , 2014, 762705	3	34
101	CO2 Biofixation by the Cyanobacterium Spirulina sp. LEB 18 and the Green Alga Chlorella fusca LEB 111 Grown Using Gas Effluents and Solid Residues of Thermoelectric Origin. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 178, 418-29	3.2	33
100	Cultivation strategy to stimulate high carbohydrate content in Spirulina biomass. <i>Bioresource Technology</i> , 2018 , 269, 221-226	11	33
99	Progress in the physicochemical treatment of microalgae biomass for value-added product recovery. <i>Bioresource Technology</i> , 2020 , 301, 122727	11	32
98	Innovative pH sensors developed from ultrafine fibers containing all (Euterpe oleracea) extract. <i>Food Chemistry</i> , 2019 , 294, 397-404	8.5	31
97	Innovative polyhydroxybutyrate production by Chlorella fusca grown with pentoses. <i>Bioresource Technology</i> , 2018 , 265, 456-463	11	31
96	Vertical tubular photobioreactor for semicontinuous culture of Cyanobium sp. <i>Bioresource Technology</i> , 2011 , 102, 4897-900	11	30
95	CO conversion by the integration of biological and chemical methods: Spirulina sp. LEB 18 cultivation with diethanolamine and potassium carbonate addition. <i>Bioresource Technology</i> , 2018 , 267, 77-83	11	29

94	Microalgae starch: A promising raw material for the bioethanol production. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2739-2749	7.9	29
93	Improvement of Thermal Stability of C-Phycocyanin by Nanofiber and Preservative Agents. <i>Journal of Food Processing and Preservation</i> , 2016 , 40, 1264-1269	2.1	29
92	Bioprocess Engineering Aspects of Biopolymer Production by the CyanobacteriumSpirulinaStrain LEB 18. <i>International Journal of Polymer Science</i> , 2014 , 2014, 1-6	2.4	27
91	A novel nanocomposite for food packaging developed by electrospinning and electrospraying. <i>Food Packaging and Shelf Life</i> , 2019 , 20, 100314	8.2	25
90	Polyhydroxybutyrate production by Spirulina sp. LEB 18 grown under different nutrient concentrations. <i>African Journal of Microbiology Research</i> , 2015 , 9, 1586-1594	0.5	25
89	Recent Advances and Future Perspectives of PHB Production by Cyanobacteria. <i>Industrial Biotechnology</i> , 2018 , 14, 249-256	1.3	25
88	Innovative nanofiber technology to improve carbon dioxide biofixation in microalgae cultivation. <i>Bioresource Technology</i> , 2019 , 273, 592-598	11	24
87	Green alga cultivation with monoethanolamine: Evaluation of CO fixation and macromolecule production. <i>Bioresource Technology</i> , 2018 , 261, 206-212	11	23
86	Microalgae biosynthesis of silver nanoparticles for application in the control of agricultural pathogens. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2019 , 54, 709-716	2.2	22
85	Development of a colorimetric pH indicator using nanofibers containing Spirulina sp. LEB 18. <i>Food Chemistry</i> , 2020 , 328, 126768	8.5	22
84	Polyhydroxybutyrate (PHB) Synthesis by Spirulina sp. LEB 18 Using Biopolymer Extraction Waste. <i>Applied Biochemistry and Biotechnology</i> , 2018 , 185, 822-833	3.2	22
83	Fed-batch cultivation with CO and monoethanolamine: Influence on Chlorella fusca LEB 111 cultivation, carbon biofixation and biomolecules production. <i>Bioresource Technology</i> , 2019 , 273, 627-63	3 ¹¹	21
82	Chlorella minutissima cultivation with CO and pentoses: Effects on kinetic and nutritional parameters. <i>Bioresource Technology</i> , 2017 , 244, 338-344	11	20
81	Simultaneous cultivation of Spirulina platensis and the toxigenic cyanobacteria Microcystis aeruginosa. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2006 , 61, 105-10	1.7	20
80	Encapsulation of phycocyanin by electrospraying: A promising approach for the protection of sensitive compounds. <i>Food and Bioproducts Processing</i> , 2020 , 119, 206-215	4.9	18
79	Production of Nanofibers Containing the Bioactive Compound C-Phycocyanin. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 944-9	1.3	17
78	Engineering strategies for the enhancement of Nannochloropsis gaditana outdoor production: Influence of the CO2 flow rate on the culture performance in tubular photobioreactors. <i>Process Biochemistry</i> , 2019 , 76, 171-177	4.8	17
77	UTILIZATION OF CO2 IN SEMI-CONTINUOUS CULTIVATION OF Spirulina sp. AND Chlorella fusca AND EVALUATION OF BIOMASS COMPOSITION. <i>Brazilian Journal of Chemical Engineering</i> , 2016 , 33, 697	1- 69 8	16

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76	Microalgae protein heating in acid/basic solution for nanofibers production by free surface electrospinning. <i>Journal of Food Engineering</i> , 2018 , 230, 49-54	6	15
75	Effect of Spirulina addition on the physicochemical and structural properties of extruded snacks. <i>Food Science and Technology</i> , 2017 , 37, 16-23	2	15
74	Biofunctionalized nanofibers using Arthrospira (Spirulina) biomass and biopolymer. <i>BioMed Research International</i> , 2015 , 2015, 967814	3	15
73	Extraction of poly(3-hydroxybutyrate) from Spirulina LEB 18 for developing nanofibers. <i>Polimeros</i> , 2015 , 25, 161-167	1.6	13
72	Bioprocessos para remoß de di¤ido de carbono e ¤ido de nitrogñio por micro-algas visando a utilizaß de gases gerados durante a combustß do carvß. <i>Quimica Nova</i> , 2008 , 31, 1038-1042	1.6	13
71	Glycerol increases growth, protein production and alters the fatty acids profile of Spirulina (Arthrospira) sp LEB 18. <i>Process Biochemistry</i> , 2019 , 76, 40-45	4.8	13
70	Efficacy of Spirulina sp. polyhydroxyalkanoates extraction methods and influence on polymer properties and composition. <i>Algal Research</i> , 2018 , 33, 231-238	5	13
69	Biological CO mitigation by microalgae: technological trends, future prospects and challenges. World Journal of Microbiology and Biotechnology, 2019 , 35, 78	4.4	12
68	Nitrogen balancing and xylose addition enhances growth capacity and protein content in Chlorella minutissima cultures. <i>Bioresource Technology</i> , 2016 , 218, 129-33	11	12
67	Nanoencapsulation of the Bioactive Compounds of Spirulina with a Microalgal Biopolymer Coating. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 81-91	1.3	12
66	Enhancement of the carbohydrate content in Spirulina by applying CO, thermoelectric fly ashes and reduced nitrogen supply. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 1241-1247	7.9	12
65	Preparation of beta-carotene nanoemulsion and evaluation of stability at a long storage period. <i>Food Science and Technology</i> , 2019 , 39, 599-604	2	11
64	Development of time-pH indicator nanofibers from natural pigments: An emerging processing technology to monitor the quality of foods. <i>LWT - Food Science and Technology</i> , 2021 , 142, 111020	5.4	11
63	Green alga cultivation with nanofibers as physical adsorbents of carbon dioxide: Evaluation of gas biofixation and macromolecule production. <i>Bioresource Technology</i> , 2019 , 287, 121406	11	10
62	Electrospun chitosan/poly(ethylene oxide) nanofibers applied for the removal of glycerol impurities from biodiesel production by biosorption. <i>Journal of Molecular Liquids</i> , 2018 , 268, 365-370	6	10
61	An Open Pond System for Microalgal Cultivation 2014 , 1-22		10
60	Spirulina sp. LEB 18 cultivation in seawater and reduced nutrients: Bioprocess strategy for increasing carbohydrates in biomass. <i>Bioresource Technology</i> , 2020 , 316, 123883	11	10
59	Potential of Chlorella fusca LEB 111 cultivated with thermoelectric fly ashes, carbon dioxide and reduced supply of nitrogen to produce macromolecules. <i>Bioresource Technology</i> , 2019 , 277, 55-61	11	10

58	Cultivation of different microalgae with pentose as carbon source and the effects on the carbohydrate content. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 1062-1070	2.6	10
57	Role of light emitting diode (LED) wavelengths on increase of protein productivity and free amino acid profile of Spirulina sp. cultures. <i>Bioresource Technology</i> , 2020 , 306, 123184	11	9
56	Microalgae biopeptides applied in nanofibers for the development of active packaging. <i>Polimeros</i> , 2017 , 27, 290-297	1.6	9
55	Quercetin and curcumin in nanofibers of polycaprolactone and poly(hydroxybutyrate-co-hydroxyvalerate): Assessment of in vitro antioxidant activity. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	9
54	Electrospun Polymeric Nanofibers in Food Packaging 2018 , 387-417		9
53	The cultivation of microalgae Cyanobium sp. and Chlorella sp. in different culture media and stirring setting. <i>African Journal of Microbiology Research</i> , 2015 , 9, 1431-1439	0.5	9
52	Perfil de 🛚 idos graxos de microalgas cultivadas com di 🗷 ido de carbono. <i>Ciencia E Agrotecnologia</i> , 2008 , 32, 1245-1251	1.6	9
51	Physical and biological fixation of CO with polymeric nanofibers in outdoor cultivations of Chlorella fusca LEB 111. <i>International Journal of Biological Macromolecules</i> , 2020 , 151, 1332-1339	7.9	9
50	Renewal of nanofibers in Chlorella fusca microalgae cultivation to increase CO fixation. <i>Bioresource Technology</i> , 2021 , 321, 124452	11	9
49	INDUSTRIAL PLANT FOR PRODUCTION OF Spirulina sp. LEB 18. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 51-63	1.7	8
48	New technologies from the bioworld: selection of biopolymer-producing microalgae. <i>Polimeros</i> , 2017 , 27, 285-289	1.6	8
47	Scaffolds Containing Spirulina sp. LEB 18 Biomass: Development, Characterization and Evaluation of In Vitro Biodegradation. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 1050-9	1.3	8
46	Effect of the carbon concentration, blend concentration, and renewal rate in the growth kinetic of Chlorella sp. <i>Scientific World Journal, The</i> , 2014 , 2014, 205184	2.2	8
45	Snack bars enriched with Spirulina for schoolchildren nutrition. <i>Food Science and Technology</i> , 2020 , 40, 146-152	2	8
44	Brackish Groundwater from Brazilian Backlands in Spirulina Cultures: Potential of Carbohydrate and Polyunsaturated Fatty Acid Production. <i>Applied Biochemistry and Biotechnology</i> , 2020 , 190, 907-917	3.2	8
43	Open pond systems for microalgal culture 2019 , 199-223		7
42	Carbon dioxide mitigation by microalga in a vertical tubular reactor with recycling of the culture medium. <i>African Journal of Microbiology Research</i> , 2015 , 9, 1935-1940	0.5	7
41	Biofixation of carbon dioxide from coal station flue gas using Spirulina sp. LEB 18 and Scenedesmus obliquus LEB 22. <i>African Journal of Microbiology Research</i> , 2015 , 9, 2202-2208	0.5	7

40	Microalgae-Based Biorefineries as a Promising Approach to Biofuel Production 2017, 113-140		5
39	Polyhydroxybutyrate production and increased macromolecule content in Chlamydomonas reinhardtii cultivated with xylose and reduced nitrogen levels. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 875-883	7.9	5
38	Role of microalgae in circular bioeconomy: from waste treatment to biofuel production. <i>Clean Technologies and Environmental Policy</i> ,1	4.3	5
37	Use of Solid Waste from Thermoelectric Plants for the Cultivation of Microalgae. <i>Brazilian Archives of Biology and Technology</i> , 2016 , 59,	1.8	5
36	Evaluation of different modes of operation for the production of Spirulina sp <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1345-1348	3.5	4
35	Biodiesel and Bioethanol from Microalgae. <i>Green Energy and Technology</i> , 2016 , 359-386	0.6	4
34	Microalgal biotechnology applied in biomedicine 2020 , 429-439		4
33	Evaluation of CO2 Biofixation and Biodiesel Production by Spirulina (Arthospira) Cultivated In Air-Lift Photobioreactor. <i>Brazilian Archives of Biology and Technology</i> , 2018 , 61,	1.8	4
32	Simultaneous Biosynthesis of Silver Nanoparticles with Spirulina sp. LEB 18 Cultivation. <i>Industrial Biotechnology</i> , 2019 , 15, 263-267	1.3	3
31	Production of polymeric nanofibers with different conditions of the electrospinning process. <i>Revista Materia</i> , 2017 , 22,	0.8	3
30	Microalgae Cultivation and Industrial Waste: New Biotechnologies for Obtaining Silver Nanoparticles. <i>Mini-Reviews in Organic Chemistry</i> , 2019 , 16, 369-376	1.7	3
29	Biofixation of CO2 from Synthetic Combustion Gas Using Cultivated Microalgae in Three-Stage Serial Tubular Photobioreactors. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2011 , 66, 0313	1.7	3
28	Microalgae Polysaccharides: An Overview of Production, Characterization, and Potential Applications. <i>Polysaccharides</i> , 2021 , 2, 759-772	3	3
27	Increase in biomass productivity and protein content of Spirulina sp. LEB 18 (Arthrospira) cultivated with crude glycerol. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	3
26	Biofixation of CO2 on a pilot scale: Scaling of the process for industrial application. <i>African Journal of Microbiology Research</i> , 2016 , 10, 768-774	0.5	3
25	Liquid Biofuels From Microalgae: Recent Trends 2019 , 351-372		2
24	Pentoses Used in Cultures of Synechococcus nidulans and Spirulina paracas: Evaluation of Effects in Growth and in Content of Proteins and Carbohydrates. <i>Brazilian Archives of Biology and Technology</i> ,62,	1.8	2
23	Innovative application of brackish groundwater without the addition of nutrients in the cultivation of Spirulina and Chlorella for carbohydrate and lipid production <i>Bioresource Technology</i> , 2021 , 345, 12	26543	2

22	Development of Bioactive Nanopeptide of Microalgal Origin. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1025-030	1.3	1
21	Microalgae as a source of sustainable biofuels 2020 , 253-271		1
20	Biofixation of CO2 from synthetic combustion gas using cultivated microalgae in three-stage serial tubular photobioreactors. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2011 , 66, 31	3- 8 ·7	1
19	Degradation Effects on the Mechanical and Thermal Properties of the Bio-Composites Due to Accelerated Weathering. <i>Composites Science and Technology</i> , 2022 , 159-172		1
18	Polyhydroxybutyrate (PHB)-based blends and composites 2022 , 389-413		1
17	Advances in the synthesis and applications of nanomaterials to increase CO2 biofixation in microalgal cultivation. <i>Clean Technologies and Environmental Policy</i> ,1	4.3	1
16	Cyanobacterial Biomass by Reuse of Wastewater-Containing Hypochlorite. <i>Industrial Biotechnology</i> , 2018 , 14, 265-269	1.3	1
15	Development of pH indicators from nanofibers containing microalgal pigment for monitoring of food quality. <i>Food Bioscience</i> , 2021 , 44, 101387	4.9	1
14	Outdoor Production of Biomass and Biomolecules by Spirulina (Arthrospira) and Synechococcus cultivated with Reduced Nutrient Supply. <i>Bioenergy Research</i> ,1	3.1	1
13	Recent Advances of Microalgae Exopolysaccharides for Application as Bioflocculants. <i>Polysaccharides</i> , 2022 , 3, 264-276	3	1
12	Exopolysaccharides from microalgae: Production in a biorefinery framework and potential applications. <i>Bioresource Technology Reports</i> , 2022 , 18, 101006	4.1	1
11	Magnetic Field Action on Limnospira indica PCC8005 Cultures: Enhancement of Biomass Yield and Protein Content. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1533	2.6	O
10	Microfiltration membranes developed from nanofibers via an electrospinning process. <i>Materials Chemistry and Physics</i> , 2022 , 277, 125509	4.4	О
9	Microalgal Applications in Nanotechnology: An Outstanding Tool for Nanocompounds Synthesis and Bioproducts Obtention. <i>Nanotechnology in the Life Sciences</i> , 2021 , 95-116	1.1	O
8	Microalgae-Based UV Protection Compounds 2021 , 201-224		
7	Biomolecule concentrations increase in Chlorella fusca LEB 111 cultured using chemical absorbents and nutrient reuse. <i>Bioenergy Research</i> ,1	3.1	
6	Microalgae as source of edible lipids 2021 , 147-175		
5	Nanofiber-Reinforced Bionanocomposites in Agriculture Applications. <i>Composites Science and Technology</i> , 2022 , 311-332		

LIST OF PUBLICATIONS

- Increasing the cell productivity of mixotrophic growth of Spirulina sp. LEB 18 with crude glycerol.

 Biomass Conversion and Biorefinery,1
- 2.3
- 3 Metabolism of microalgae and metabolic engineering for biomaterial applications **2022**, 1-20
- 2 Encapsulation of Bioactive Compounds in Electrospun Nanofibers for Food Packaging **2022**, 473-490
- Electrospun Polymeric Nanofibers: An Innovative Application for Preservation of Fruits and Vegetables **2022**, 451-471