Michele G Morais

List of Publications by Year
in descending order

130 papers	5,226 citations	87723 38 h-index	98622 67 g-index
135 all docs	135 docs citations	135 times ranked	4663 citing authors

#	Article	IF	Citations
1	Increase in biomass productivity and protein content of Spirulina sp. LEB 18 (Arthrospira) cultivated with crude glycerol. Biomass Conversion and Biorefinery, 2022, 12, 597-605.	2.9	8
2	Outdoor Production of Biomass and Biomolecules by Spirulina (Arthrospira) and Synechococcus cultivated with Reduced Nutrient Supply. Bioenergy Research, 2022, 15, 121-130.	2.2	4
3	Microfiltration membranes developed from nanofibers via an electrospinning process. Materials Chemistry and Physics, 2022, 277, 125509.	2.0	4
4	Innovative application of brackish groundwater without the addition of nutrients in the cultivation of Spirulina and Chlorella for carbohydrate and lipid production. Bioresource Technology, 2022, 345, 126543.	4.8	9
5	Magnetic Field Action on Limnospira indica PCC8005 Cultures: Enhancement of Biomass Yield and Protein Content. Applied Sciences (Switzerland), 2022, 12, 1533.	1.3	3
6	Biomolecule concentrations increase in Chlorella fusca LEB 111 cultured using chemical absorbents and nutrient reuse. Bioenergy Research, 2022, 15, 131-140.	2.2	2
7	Degradation Effects on the Mechanical and Thermal Properties of the Bio-Composites Due to Accelerated Weathering. Composites Science and Technology, 2022, , 159-172.	0.4	1
8	Polyhydroxybutyrate (PHB)-based blends and composites. , 2022, , 389-413.		5
9	Nanofiber-Reinforced Bionanocomposites in Agriculture Applications. Composites Science and Technology, 2022, , 311-332.	0.4	1
10	Recent Advances of Microalgae Exopolysaccharides for Application as Bioflocculants. Polysaccharides, 2022, 3, 264-276.	2.1	11
11	Exopolysaccharides from microalgae: Production in a biorefinery framework and potential applications. Bioresource Technology Reports, 2022, 18, 101006.	1.5	16
12	Nanotechnology Perspectives for Bacteriocin Applications in Active Food Packaging. Industrial Biotechnology, 2022, 18, 137-146.	0.5	0
13	Microalgae Polysaccharides: An Alternative Source for Food Production and Sustainable Agriculture. Polysaccharides, 2022, 3, 441-457.	2.1	37
14	Metabolism of microalgae and metabolic engineering for biomaterial applications. , 2022, , 1-20.		0
15	Renewal of nanofibers in Chlorella fusca microalgae cultivation to increase CO2 fixation. Bioresource Technology, 2021, 321, 124452.	4.8	24
16	Microalgae as source of edible lipids. , 2021, , 147-175.		0
17	Development of time-pH indicator nanofibers from natural pigments: An emerging processing technology to monitor the quality of foods. LWT - Food Science and Technology, 2021, 142, 111020.	2.5	26
18	Development of pH indicators from nanofibers containing microalgal pigment for monitoring of food quality. Food Bioscience, 2021, 44, 101387.	2.0	12

#	Article	IF	Citations
19	Microalgae Polysaccharides: An Overview of Production, Characterization, and Potential Applications. Polysaccharides, 2021, 2, 759-772.	2.1	45
20	Brackish Groundwater from Brazilian Backlands in Spirulina Cultures: Potential of Carbohydrate and Polyunsaturated Fatty Acid Production. Applied Biochemistry and Biotechnology, 2020, 190, 907-917.	1.4	16
21	Encapsulation of phycocyanin by electrospraying: A promising approach for the protection of sensitive compounds. Food and Bioproducts Processing, 2020, 119, 206-215.	1.8	35
22	Progress in the physicochemical treatment of microalgae biomass for value-added product recovery. Bioresource Technology, 2020, 301, 122727.	4.8	55
23	Physical and biological fixation of CO2 with polymeric nanofibers in outdoor cultivations of Chlorella fusca LEB 111. International Journal of Biological Macromolecules, 2020, 151, 1332-1339.	3.6	25
24	Spirulina sp. LEB 18 cultivation in seawater and reduced nutrients: Bioprocess strategy for increasing carbohydrates in biomass. Bioresource Technology, 2020, 316, 123883.	4.8	28
25	Microalgae starch: A promising raw material for the bioethanol production. International Journal of Biological Macromolecules, 2020, 165, 2739-2749.	3.6	68
26	Microalgae as a source of sustainable biofuels. , 2020, , 253-271.		2
27	Role of light emitting diode (LED) wavelengths on increase of protein productivity and free amino acid profile of Spirulina sp. cultures. Bioresource Technology, 2020, 306, 123184.	4.8	25
28	Development of a colorimetric pH indicator using nanofibers containing Spirulina sp. LEB 18. Food Chemistry, 2020, 328, 126768.	4.2	41
29	Microalgal biotechnology applied in biomedicine. , 2020, , 429-439.		6
30	Polyhydroxybutyrate production and increased macromolecule content in Chlamydomonas reinhardtii cultivated with xylose and reduced nitrogen levels. International Journal of Biological Macromolecules, 2020, 158, 875-883.	3.6	11
31	Snack bars enriched with Spirulina for schoolchildren nutrition. Food Science and Technology, 2020, 40, 146-152.	0.8	24
32	Operational and economic aspects of Spirulina-based biorefinery. Bioresource Technology, 2019, 292, 121946.	4.8	111
33	Preparation of beta-carotene nanoemulsion and evaluation of stability at a long storage period. Food Science and Technology, 2019, 39, 599-604.	0.8	16
34	Simultaneous Biosynthesis of Silver Nanoparticles with <i>Spirulina</i> sp. LEB 18 Cultivation. Industrial Biotechnology, 2019, 15, 263-267.	0.5	5
35	INDUSTRIAL PLANT FOR PRODUCTION OF Spirulina sp. LEB 18. Brazilian Journal of Chemical Engineering, 2019, 36, 51-63.	0.7	10
36	Open pond systems for microalgal culture. , 2019, , 199-223.		19

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37	Microalgae biosynthesis of silver nanoparticles for application in the control of agricultural pathogens. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2019, 54, 709-716.	0.7	32
38	Innovative pH sensors developed from ultrafine fibers containing aÃ§aÃ(Euterpe oleracea) extract. Food Chemistry, 2019, 294, 397-404.	4.2	48
39	Green alga cultivation with nanofibers as physical adsorbents of carbon dioxide: Evaluation of gas biofixation and macromolecule production. Bioresource Technology, 2019, 287, 121406.	4.8	24
40	Biological CO2 mitigation by microalgae: technological trends, future prospects and challenges. World Journal of Microbiology and Biotechnology, 2019, 35, 78.	1.7	23
41	Microalgae as source of polyhydroxyalkanoates (PHAs) â€" A review. International Journal of Biological Macromolecules, 2019, 131, 536-547.	3.6	127
42	A novel nanocomposite for food packaging developed by electrospinning and electrospraying. Food Packaging and Shelf Life, 2019, 20, 100314.	3.3	40
43	Liquid Biofuels From Microalgae: Recent Trends. , 2019, , 351-372.		2
44	Potential of microalgae as biopesticides to contribute to sustainable agriculture and environmental development. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2019, 54, 366-375.	0.7	84
45	Antioxidant ultrafine fibers developed with microalga compounds using a free surface electrospinning. Food Hydrocolloids, 2019, 93, 131-136.	5.6	53
46	Fed-batch cultivation with CO2 and monoethanolamine: Influence on Chlorella fusca LEB 111 cultivation, carbon biofixation and biomolecules production. Bioresource Technology, 2019, 273, 627-633.	4.8	33
47	Innovative nanofiber technology to improve carbon dioxide biofixation in microalgae cultivation. Bioresource Technology, 2019, 273, 592-598.	4.8	46
48	Potential of Chlorella fusca LEB 111 cultivated with thermoelectric fly ashes, carbon dioxide and reduced supply of nitrogen to produce macromolecules. Bioresource Technology, 2019, 277, 55-61.	4.8	18
49	Engineering strategies for the enhancement of Nannochloropsis gaditana outdoor production: Influence of the CO2 flow rate on the culture performance in tubular photobioreactors. Process Biochemistry, 2019, 76, 171-177.	1.8	18
50	Enhancement of the carbohydrate content in Spirulina by applying CO2, thermoelectric fly ashes and reduced nitrogen supply. International Journal of Biological Macromolecules, 2019, 123, 1241-1247.	3.6	25
51	Glycerol increases growth, protein production and alters the fatty acids profile of Spirulina (Arthrospira) sp LEB 18. Process Biochemistry, 2019, 76, 40-45.	1.8	24
52	Microalgal biorefinery from CO2 and the effects under the Blue Economy. Renewable and Sustainable Energy Reviews, 2019, 99, 58-65.	8.2	50
53	Cultivation of different microalgae with pentose as carbon source and the effects on the carbohydrate content. Environmental Technology (United Kingdom), 2019, 40, 1062-1070.	1.2	13
54	Microalgae Cultivation and Industrial Waste: New Biotechnologies for Obtaining Silver Nanoparticles. Mini-Reviews in Organic Chemistry, 2019, 16, 369-376.	0.6	8

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55	Polyhydroxybutyrate and phenolic compounds microalgae electrospun nanofibers: A novel nanomaterial with antibacterial activity. International Journal of Biological Macromolecules, 2018, 113, 1008-1014.	3.6	43
56	Phycocyanin from Microalgae: Properties, Extraction and Purification, with Some Recent Applications. Industrial Biotechnology, 2018, 14, 30-37.	0.5	73
57	Microalgae protein heating in acid/basic solution for nanofibers production by free surface electrospinning. Journal of Food Engineering, 2018, 230, 49-54.	2.7	19
58	Spirulina cultivated under different light emitting diodes: Enhanced cell growth and phycocyanin production. Bioresource Technology, 2018, 256, 38-43.	4.8	81
59	Outdoor pilot-scale cultivation of Spirulina sp. LEB-18 in different geographic locations for evaluating its growth and chemical composition. Bioresource Technology, 2018, 256, 86-94.	4.8	66
60	Polyhydroxybutyrate (PHB) Synthesis by Spirulina sp. LEB 18 Using Biopolymer Extraction Waste. Applied Biochemistry and Biotechnology, 2018, 185, 822-833.	1.4	27
61	Green alga cultivation with monoethanolamine: Evaluation of CO2 fixation and macromolecule production. Bioresource Technology, 2018, 261, 206-212.	4.8	32
62	Ultrafine fibers of zein and anthocyanins as natural pH indicator. Journal of the Science of Food and Agriculture, 2018, 98, 2735-2741.	1.7	88
63	Spirulina for snack enrichment: Nutritional, physical and sensory evaluations. LWT - Food Science and Technology, 2018, 90, 270-276.	2.5	157
64	Evaluation of CO2 Biofixation and Biodiesel Production by Spirulina (Arthospira) Cultivated In Air-Lift Photobioreactor. Brazilian Archives of Biology and Technology, 2018, 61, .	0.5	6
65	Cyanobacterial Biomass by Reuse of Wastewater-Containing Hypochlorite. Industrial Biotechnology, 2018, 14, 265-269.	0.5	2
66	Recent Advances and Future Perspectives of PHB Production by Cyanobacteria. Industrial Biotechnology, 2018, 14, 249-256.	0.5	37
67	Cultivation strategy to stimulate high carbohydrate content in Spirulina biomass. Bioresource Technology, 2018, 269, 221-226.	4.8	45
68	Efficacy of Spirulina sp. polyhydroxyalkanoates extraction methods and influence on polymer properties and composition. Algal Research, 2018, 33, 231-238.	2.4	22
69	Development of electrospun nanofibers containing chitosan/PEO blend and phenolic compounds with antibacterial activity. International Journal of Biological Macromolecules, 2018, 117, 800-806.	3.6	87
70	CO2 conversion by the integration of biological and chemical methods: Spirulina sp. LEB 18 cultivation with diethanolamine and potassium carbonate addition. Bioresource Technology, 2018, 267, 77-83.	4.8	42
71	Development of pH indicator from PLA/PEO ultrafine fibers containing pigment of microalgae origin. International Journal of Biological Macromolecules, 2018, 118, 1855-1862.	3.6	61
72	Electrospun chitosan/poly(ethylene oxide) nanofibers applied for the removal of glycerol impurities from biodiesel production by biosorption. Journal of Molecular Liquids, 2018, 268, 365-370.	2.3	15

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73	Influence of nitrogen on growth, biomass composition, production, and properties of polyhydroxyalkanoates (PHAs) by microalgae. International Journal of Biological Macromolecules, 2018, 116, 552-562.	3.6	101
74	Electrospun Polymeric Nanofibers in Food Packaging. , 2018, , 387-417.		10
75	Innovative polyhydroxybutyrate production by Chlorella fusca grown with pentoses. Bioresource Technology, 2018, 265, 456-463.	4.8	56
76	Industrial Effluents as a Nutritional Source in Microalgae Cultivation. Mini-Reviews in Organic Chemistry, 2018, 15, .	0.6	0
77	Development of Bioactive Nanopeptide of Microalgal Origin. Journal of Nanoscience and Nanotechnology, 2017, 17, 1025-1030.	0.9	1
78	Pentoses and light intensity increase the growth and carbohydrate production and alter the protein profile of Chlorella minutissima. Bioresource Technology, 2017, 238, 248-253.	4.8	51
79	Chlorella minutissima cultivation with CO2 and pentoses: Effects on kinetic and nutritional parameters. Bioresource Technology, 2017, 244, 338-344.	4.8	21
80	Microalgae-Based Biorefineries as a Promising Approach to Biofuel Production. , 2017, , 113-140.		7
81	Effect of Spirulina addition on the physicochemical and structural properties of extruded snacks. Food Science and Technology, 2017, 37, 16-23.	0.8	26
82	Production of polymeric nanofibers with different conditions of the electrospinning process. Revista Materia, 2017, 22, .	0.1	7
83	New technologies from the bioworld: selection of biopolymer-producing microalgae. Polimeros, 2017, 27, 285-289.	0.2	12
84	Microalgae biopeptides applied in nanofibers for the development of active packaging. Polimeros, 2017, 27, 290-297.	0.2	12
85	Use of Solid Waste from Thermoelectric Plants for the Cultivation of Microalgae. Brazilian Archives of Biology and Technology, 2016, 59, .	0.5	7
86	UTILIZATION OF CO2 IN SEMI-CONTINUOUS CULTIVATION OF Spirulina sp. AND Chlorella fusca AND EVALUATION OF BIOMASS COMPOSITION. Brazilian Journal of Chemical Engineering, 2016, 33, 691-698.	0.7	24
87	Biofixation of CO2 on a pilot scale: Scaling of the process for industrial application. African Journal of Microbiology Research, 2016, 10, 768-774.	0.4	3
88	Improvement of Thermal Stability of C-Phycocyanin by Nanofiber and Preservative Agents. Journal of Food Processing and Preservation, 2016, 40, 1264-1269.	0.9	39
89	Biodiesel and Bioethanol from Microalgae. Green Energy and Technology, 2016, , 359-386.	0.4	4
90	Nitrogen balancing and xylose addition enhances growth capacity and protein content in Chlorella minutissima cultures. Bioresource Technology, 2016, 218, 129-133.	4.8	15

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91	Evaluation of different modes of operation for the production of<i>Spirulina</i>sp.. Journal of Chemical Technology and Biotechnology, 2016, 91, 1345-1348.	1.6	5
92	Quercetin and curcumin in nanofibers of polycaprolactone and poly(hydroxybutyrateâ€<i>co</i>â€hydroxyvalerate): Assessment of <i>in vitro</i> antioxidant activity. Journal of Applied Polymer Science, 2016, 133, .	1.3	15
93	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. Applied Biochemistry and Biotechnology, 2016, 178, 418-429.	1.4	40
94	Nanoencapsulation of the Bioactive Compounds of <i>Spirulina</i> with a Microalgal Biopolymer Coating. Journal of Nanoscience and Nanotechnology, 2016, 16, 81-91.	0.9	19
95	Scaffolds Containing Spirulina sp. LEB 18 Biomass: Development, Characterization and Evaluation of In Vitro Biodegradation. Journal of Nanoscience and Nanotechnology, 2016, 16, 1050-1059.	0.9	11
96	Microalgae as a new source of bioactive compounds in food supplements. Current Opinion in Food Science, 2016, 7, 73-77.	4.1	214
97	Production of Nanofibers Containing the Bioactive Compound C-Phycocyanin. Journal of Nanoscience and Nanotechnology, 2016, 16, 944-949.	0.9	21
98	Carbon dioxide mitigation by microalga in a vertical tubular reactor with recycling of the culture medium. African Journal of Microbiology Research, 2015, 9, 1935-1940.	0.4	7
99	Polyhydroxybutyrate production by Spirulina sp. LEB 18 grown under different nutrient concentrations. African Journal of Microbiology Research, 2015, 9, 1586-1594.	0.4	28
100	The cultivation of microalgae Cyanobium sp. and Chlorella sp. in different culture media and stirring setting. African Journal of Microbiology Research, 2015, 9, 1431-1439.	0.4	9
101	Extraction of poly(3-hydroxybutyrate) from Spirulina LEB 18 for developing nanofibers. Polimeros, 2015, 25, 161-167.	0.2	15
102	Biofunctionalized Nanofibers Using<i>Arthrospira</i>(<i>Spirulina</i>) Biomass and Biopolymer. BioMed Research International, 2015, 2015, 1-8.	0.9	25
103	Biologically Active Metabolites Synthesized by Microalgae. BioMed Research International, 2015, 2015, 1-15.	0.9	250
104	Biofixation of carbon dioxide from coal station flue gas using Spirulina sp. LEB 18 and Scenedesmus obliquus LEB 22. African Journal of Microbiology Research, 2015, 9, 2202-2208.	0.4	9
105	Conducting biopolymer-carbon nanotube composite materials for sensing applications. Journal of Material Science & Engineering, 2015, 04, .	0.2	0
106	Effect of the Carbon Concentration, Blend Concentration, and Renewal Rate in the Growth Kinetic of<i>Chlorella</i>sp.. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	9
107	Biological Effects of<i>Spirulina</i>(<i>Arthrospira</i>) Biopolymers and Biomass in the Development of Nanostructured Scaffolds. BioMed Research International, 2014, 2014, 1-9.	0.9	44
108	Bioprocess Engineering Aspects of Biopolymer Production by the Cyanobacterium<i>Spirulina</i>Strain LEB 18. International Journal of Polymer Science, 2014, 2014, 1-6.	1.2	32

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109	Biological Applications of Nanobiotechnology. Journal of Nanoscience and Nanotechnology, 2014, 14, 1007-1017.	0.9	66
110	An Open Pond System for Microalgal Cultivation. , 2014, , 1-22.		21
111	Development of a new nanofiber scaffold for use with stem cells in a third degree burn animal model. Burns, 2014, 40, 1650-1660.	1.1	44
112	A New Biomaterial of Nanofibers with the Microalga <I>Spirulinaas</I> Scaffolds to Cultivate with Stem Cells for Use in Tissue Engineering. Journal of Biomedical Nanotechnology, 2013, 9, 710-718.	0.5	50
113	Biofi xation of CO₂ from Synthetic Combustion Gas Using Cultivated Microalgae in Three-Stage Serial Tubular Photobioreactors. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2011, 66, 313-318.	0.6	2
114	The role of biochemical engineering in the production of biofuels from microalgae. Bioresource Technology, 2011, 102, 2-9.	4.8	234
115	Vertical tubular photobioreactor for semicontinuous culture of Cyanobium sp.. Bioresource Technology, 2011, 102, 4897-4900.	4.8	35
116	Biofixation of CO2 from Synthetic Combustion Gas Using Cultivated Microalgae in Three-Stage Serial Tubular Photobioreactors. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2011, 66, 0313.	0.6	3
117	Preparation of nanofibers containing the microalga Spirulina (Arthrospira). Bioresource Technology, 2010, 101, 2872-2876.	4.8	80
118	Pilot scale semicontinuous production of Spirulina biomass in southern Brazil. Aquaculture, 2009, 294, 60-64.	1.7	87
119	Isolation and Characterization of a New Arthrospira Strain. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2008, 63, 144-150.	0.6	77
120	Bioprocessos para remoÃ§Ã£o de diÃ³xido de carbono e Ã³xido de nitrogÃªnio por micro-algas visando a utilizaÃ§Ã£o de gases gerados durante a combustÃ£o do carvÃ£o. Quimica Nova, 2008, 31, 1038-1042.	0.3	21
121	Perfil de Ã¡cidos graxos de microalgas cultivadas com diÃ³xido de carbono. Ciencia E Agrotecnologia, 2008, 32, 1245-1251.	1.5	14
122	Biofixation of carbon dioxide by Spirulina sp. and Scenedesmus obliquus cultivated in a three-stage serial tubular photobioreactor. Journal of Biotechnology, 2007, 129, 439-445.	1.9	480
123	Isolation and selection of microalgae from coal fired thermoelectric power plant for biofixation of carbon dioxide. Energy Conversion and Management, 2007, 48, 2169-2173.	4.4	287
124	Carbon dioxide fixation by Chlorella kessleri, C. vulgaris, Scenedesmus obliquus and Spirulina sp. cultivated in flasks and vertical tubular photobioreactors. Biotechnology Letters, 2007, 29, 1349-1352.	1.1	253
125	Simultaneous Cultivation of Spirulina platensis and the Toxigenic Cyanobacteria Microcystis aeruginosa. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2006, 61, 105-110.	0.6	25
126	Chlorella minutissima grown with xylose and arabinose in tubular photobioreactors: Evaluation of kinetics, carbohydrate production, and protein profile. Canadian Journal of Chemical Engineering, 0, , .	0.9	2

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127	Role of microalgae in circular bioeconomy: from waste treatment to biofuel production. Clean Technologies and Environmental Policy, 0, , 1.	2.1	12
128	Pentoses Used in Cultures of Synechococcus nidulans and Spirulina paracas: Evaluation of Effects in Growth and in Content of Proteins and Carbohydrates. Brazilian Archives of Biology and Technology, 0, 62, .	0.5	2
129	Advances in the synthesis and applications of nanomaterials to increase CO2 biofixation in microalgal cultivation. Clean Technologies and Environmental Policy, 0, , 1.	2.1	3
130	Increasing the cell productivity of mixotrophic growth of Spirulina sp. LEB 18 with crude glycerol. Biomass Conversion and Biorefinery, 0, , 1.	2.9	0