JoÃ£o Varela

List of Publications by Year
in descending order

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97	4,327	87723 38	123241 61
papers	citations	h-index	g-index

100	100	100	5268
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diel biochemical and photosynthetic monitorization of Skeletonema costatum and Phaeodactylum tricornutum grown in outdoor pilot-scale flat panel photobioreactors. Journal of Biotechnology, 2022, 343, 110-119.	1.9	7
2	Effects of LED lighting on Nannochloropsis oceanica grown in outdoor raceway ponds. Algal Research, 2022, 64, 102685.	2.4	5
3	Optimisation of Biomass Production and Nutritional Value of Two Marine Diatoms (Bacillariophyceae), Skeletonema costatum and Chaetoceros calcitrans. Biology, 2022, 11, 594.	1.3	7
4	Microalgae as Potential Sources of Bioactive Compounds for Functional Foods and Pharmaceuticals. Applied Sciences (Switzerland), 2022, 12, 5877.	1.3	17
5	Algae as Food in Europe: An Overview of Species Diversity and Their Application. Foods, 2022, 11, 1871.	1.9	63
6	Drying Microalgae Using an Industrial Solar Dryer: A Biomass Quality Assessment. Foods, 2022, 11, 1873.	1.9	13
7	Random Mutagenesis as a Promising Tool for Microalgal Strain Improvement towards Industrial Production. Marine Drugs, 2022, 20, 440.	2.2	36
8	High-value compound induction by flashing light in Diacronema lutheri and Tetraselmis striata CTP4. Bioresource Technology Reports, 2022, 19, 101158.	1.5	2
9	Flashing light emitting diodes (LEDs) induce proteins, polyunsaturated fatty acids and pigments in three microalgae. Journal of Biotechnology, 2021, 325, 15-24.	1.9	37
10	Microalgae as source of edible lipids. , 2021, , 147-175.		0
11	Operation Regimes: A Comparison Based on Nannochloropsis oceanica Biomass and Lipid Productivity. Energies, 2021, 14, 1542.	1.6	14
12	Nutritional and Functional Evaluation of Inula crithmoides and Mesembryanthemum nodiflorum Grown in Different Salinities for Human Consumption. Molecules, 2021, 26, 4543.	1.7	9
13	In situ monitoring of chlorophyll a fluorescence in Nannochloropsis oceanica cultures to assess photochemical changes and the onset of lipid accumulation during nitrogen deprivation. Biotechnology and Bioengineering, 2021, 118, 4375-4388.	1.7	4
14	Carotenoid biosynthetic gene expression, pigment and n-3 fatty acid contents in carotenoid-rich Tetraselmis striata CTP4 strains under heat stress combined with high light. Bioresource Technology, 2021, 337, 125385.	4.8	21
15	Microalgal Systems for Wastewater Treatment: Technological Trends and Challenges towards Waste Recovery. Energies, 2021, 14, 8112.	1.6	21
16	Lipid composition and some bioactivities of 3 newly isolated microalgae (Tetraselmis sp. IMP3,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	1.1	31
17	Improvement of carotenoid extraction from a recently isolated, robust microalga, Tetraselmis sp. CTP4 (chlorophyta). Bioprocess and Biosystems Engineering, 2020, 43, 785-796.	1.7	33
18	Wild vs cultivated halophytes: Nutritional and functional differences. Food Chemistry, 2020, 333, 127536.	4.2	43

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19	Anti-Hepatocellular Carcinoma (HepG2) Activities of Monoterpene Hydroxy Lactones Isolated from the Marine Microalga Tisochrysis Lutea. Marine Drugs, 2020, 18, 567.	2.2	17
20	Influence of cultivation salinity in the nutritional composition, antioxidant capacity and microbial quality of Salicornia ramosissima commercially produced in soilless systems. Food Chemistry, 2020, 333, 127525.	4.2	48
21	Antioxidant, Antimicrobial, and Bioactive Potential of Two New Haloarchaeal Strains Isolated from Odiel Salterns (Southwest Spain). Biology, 2020, 9, 298.	1.3	24
22	Nannochloropsis oceanica Cultivation in Pilot-Scale Raceway Pondsâ€"From Design to Cultivation. Applied Sciences (Switzerland), 2020, 10, 1725.	1.3	19
23	Isolation and Characterization of Novel Chlorella Vulgaris Mutants With Low Chlorophyll and Improved Protein Contents for Food Applications. Frontiers in Bioengineering and Biotechnology, 2020, 8, 469.	2.0	61
24	Isolation, Identification and Biotechnological Applications of a Novel, Robust, Free-living Chlorococcum (Oophila) amblystomatis Strain Isolated from a Local Pond. Applied Sciences (Switzerland), 2020, 10, 3040.	1.3	15
25	Incorporation of defatted microalgal biomass (Tetraselmis sp. CTP4) at the expense of soybean meal as a feed ingredient for juvenile gilthead seabream (Sparus aurata). Algal Research, 2020, 47, 101869.	2.4	29
26	Lab-Scale Optimization of Aurantiochytrium sp. Culture Medium for Improved Growth and DHA Production. Applied Sciences (Switzerland), 2020, 10, 2500.	1.3	12
27	Development of an Organic Culture Medium for Autotrophic Production of Chlorella vulgaris Biomass. Applied Sciences (Switzerland), 2020, 10, 2156.	1.3	7
28	Effect of temperature on growth, photosynthesis and biochemical composition of Nannochloropsis oceanica, grown outdoors in tubular photobioreactors. Algal Research, 2020, 49, 101923.	2.4	23
29	Nutritional Potential and Toxicological Evaluation of Tetraselmis sp. CTP4 Microalgal Biomass Produced in Industrial Photobioreactors. Molecules, 2019, 24, 3192.	1.7	57
30	Heterotrophy as a tool to overcome the long and costly autotrophic scale-up process for large scale production of microalgae. Scientific Reports, 2019, 9, 13935.	1.6	66
31	Growth performance, biochemical composition and sedimentation velocity of Tetraselmis sp. CTP4 under different salinities using low-cost lab- and pilot-scale systems. Heliyon, 2019, 5, e01553.	1.4	25
32	Improved phylogeny of brown algae Cystoseira (Fucales) from the Atlantic-Mediterranean region based on mitochondrial sequences. PLoS ONE, 2019, 14, e0210143.	1.1	27
33	Industrial production of Phaeodactylum tricornutum for CO2 mitigation: biomass productivity and photosynthetic efficiency using photobioreactors of different volumes. Journal of Applied Phycology, 2019, 31, 2187-2196.	1.5	15
34	Report of in vitro antileishmanial properties of Iberian macroalgae. Natural Product Research, 2019, 33, 1778-1782.	1.0	5
35	A comparative study of the in vitro enzyme inhibitory and antioxidant activities of Butea monosperma (Lam.) Taub. and Sesbania grandiflora (L.) Poiret from Pakistan: New sources of natural products for public health problems. South African Journal of Botany, 2019, 120, 146-156.	1.2	16
36	Coupling sea lavender (Limonium algarvense Erben) and green tea (Camellia sinensis (L.) Kuntze) to produce an innovative herbal beverage with enhanced enzymatic inhibitory properties. South African Journal of Botany, 2019, 120, 87-94.	1.2	19

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37	In vitro and in silico approaches to unveil the mechanisms underlying the cytotoxic effect of juncunol on human hepatocarcinoma cells. Pharmacological Reports, 2018, 70, 896-899.	1.5	4
38	Fluorescence activated cell-sorting principles and applications in microalgal biotechnology. Algal Research, 2018, 30, 113-120.	2.4	54
39	Scale-up and large-scale production of Tetraselmis sp. CTP4 (Chlorophyta) for CO2 mitigation: from an agar plate to 100-m3 industrial photobioreactors. Scientific Reports, 2018, 8, 5112.	1.6	57
40	Health promoting potential of herbal teas and tinctures from Artemisia campestris subsp. maritima: from traditional remedies to prospective products. Scientific Reports, 2018, 8, 4689.	1.6	31
41	First report of the in vitro antileishmanial properties of extremophile plants from the Algarve Coast. Natural Product Research, 2018, 32, 600-604.	1.0	12
42	A first glance into the nutritional properties of the sea cucumber Parastichopus regalis from the Mediterranean Sea (SE Spain). Natural Product Research, 2018, 32, 116-120.	1.0	21
43	Composition and bioaccessibility of elements in green seaweeds from fish pond aquaculture. Food Research International, 2018, 105, 271-277.	2.9	33
44	In vitro and in silico approaches to appraise Polygonum maritimum L. as a source of innovative products with anti-ageing potential. Industrial Crops and Products, 2018, 111, 391-399.	2.5	26
45	Antileishmanial activity of meroditerpenoids from the macroalgae Cystoseira baccata. Experimental Parasitology, 2017, 174, 1-9.	0.5	35
46	Halophytes: Gourmet food with nutritional health benefits?. Journal of Food Composition and Analysis, 2017, 59, 35-42.	1.9	127
47	Searching for new sources of innovative products for the food industry within halophyte aromatic plants: InÂvitro antioxidant activity and phenolic and mineral contents of infusions and decoctions of Crithmum maritimum L.. Food and Chemical Toxicology, 2017, 107, 581-589.	1.8	65
48	Juncaceae species as sources of innovative bioactive compounds for the food industry: InÂvitro antioxidant activity, neuroprotective properties and in silico studies. Food and Chemical Toxicology, 2017, 107, 590-596.	1.8	12
49	Biochemical profile and in vitro neuroprotective properties of Carpobrotus edulis L., a medicinal and edible halophyte native to the coast of South Africa. South African Journal of Botany, 2017, 111, 222-231.	1.2	35
50	Trends and strategies to enhance triacylglycerols and high-value compounds in microalgae. Algal Research, 2017, 25, 263-273.	2.4	75
51	Unlocking the in vitro anti-inflammatory and antidiabetic potential of Polygonum maritimum. Pharmaceutical Biology, 2017, 55, 1348-1357.	1.3	33
52	Bursatella leachiifrom Mar Menor as a Source of Bioactive Molecules: Preliminary Evaluation of the Nutritional Profile,In VitroBiological Activities, and Fatty Acids Contents. Journal of Aquatic Food Product Technology, 2017, 26, 1337-1350.	0.6	5
53	Fatty acid profiles of the main lipid classes of green seaweeds from fish pond aquaculture. Food Science and Nutrition, 2017, 5, 1186-1194.	1.5	37
54	Flashing LEDs for Microalgal Production. Trends in Biotechnology, 2017, 35, 1088-1101.	4.9	65

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55	Chemical profiling of infusions and decoctions of Helichrysum italicum subsp. picardii by UHPLC-PDA-MS and in vitro biological activities comparatively with green tea (Camellia sinensis) and rooibos tisane (Aspalathus linearis). Journal of Pharmaceutical and Biomedical Analysis, 2017, 145, 593-603.	1.4	39
56	Cystoseira algae (Fucaceae): update on their chemical entities and biological activities. Tetrahedron: Asymmetry, 2017, 28, 1486-1505.	1.8	40
57	Urban wastewater treatment by Tetraselmis sp. CTP4 (Chlorophyta). Bioresource Technology, 2017, 223, 175-183.	4.8	54
58	Profiling of antioxidant potential and phytoconstituents of Plantago coronopus. Brazilian Journal of Biology, 2017, 77, 632-641.	0.4	17
59	Can macroalgae provide promising anti-tumoral compounds? A closer look atCystoseira tamariscifoliaas a source for antioxidant and anti-hepatocarcinoma compounds. PeerJ, 2016, 4, e1704.	0.9	33
60	Microalgae-based unsaponifiable matter as source of natural antioxidants and metal chelators to enhance the value of wet Tetraselmis chuii biomass. Open Chemistry, 2016, 14, 299-307.	1.0	7
61	Effect of light quality supplied by light emitting diodes (LEDs) on growth and biochemical profiles of Nannochloropsis oculata and Tetraselmis chuii. Algal Research, 2016, 16, 387-398.	2.4	82
62	Natural products from extreme marine environments: Searching for potential industrial uses within extremophile plants. Industrial Crops and Products, 2016, 94, 299-307.	2.5	56
63	Proximate biochemical composition and mineral content of edible species from the genus Cystoseira in Portugal. Botanica Marina, 2016, .	0.6	10
64	Isolation of a euryhaline microalgal strain, Tetraselmis sp. CTP4, as a robust feedstock for biodiesel production. Scientific Reports, 2016, 6, 35663.	1.6	44
65	In vitro antioxidant and anti-inflammatory properties of Limonium algarvense flowersâ€™ infusions and decoctions: A comparison with green tea (Camellia sinensis). Food Chemistry, 2016, 200, 322-329.	4.2	78
66	Natural products from marine invertebrates against Leishmania parasites: a comprehensive review. Phytochemistry Reviews, 2016, 15, 663-697.	3.1	12
67	Isololiolide, a carotenoid metabolite isolated from the brown alga Cystoseira tamariscifolia, is cytotoxic and able to induce apoptosis in hepatocarcinoma cells through caspase-3 activation, decreased Bcl-2 levels, increased p53 expression and PARP cleavage. Phytomedicine, 2016, 23, 550-557.	2.3	55
68	Methanol extracts from Cystoseira tamariscifolia and Cystoseira nodicaulis are able to inhibit cholinesterases and protect a human dopaminergic cell line from hydrogen peroxide-induced cytotoxicity. Pharmaceutical Biology, 2016, 54, 1687-1696.	1.3	38
69	First report of the nutritional profile and antioxidant potential of Holothuria arguinensis, a new resource for aquaculture in Europe. Natural Product Research, 2016, 30, 2034-2040.	1.0	28
70	Assessment and comparison of the properties of biodiesel synthesized from three different types of wet microalgal biomass. Journal of Applied Phycology, 2016, 28, 1571-1578.	1.5	13
71	A comparative evaluation of biological activities and bioactive compounds of the seagrasses Zostera marina and Zostera noltei from southern Portugal. Natural Product Research, 2016, 30, 724-728.	1.0	14
72	Biological Activities and Chemical Composition of Methanolic Extracts of Selected Autochthonous Microalgae Strains from the Red Sea. Marine Drugs, 2015, 13, 3531-3549.	2.2	44

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73	Fatty acid profile of different species of algae of the Cystoseira genus: a nutraceutical perspective. Natural Product Research, 2015, 29, 1264-1270.	1.0	30
74	Novel approach to bis(indolyl)methanes: De novo synthesis of 1-hydroxyiminomethyl derivatives with anti-cancer properties. European Journal of Medicinal Chemistry, 2015, 93, 9-15.	2.6	45
75	Medicinal Effects of Microalgae-Derived Fatty Acids. , 2015, , 209-231.		7
76	Unravelling the antioxidant potential and the phenolic composition of different anatomical organs of the marine halophyte Limonium algarvense. Industrial Crops and Products, 2015, 77, 315-322.	2.5	67
77	Botryococcus braunii and Nannochloropsis oculata extracts inhibit cholinesterases and protect human dopaminergic SH-SY5Y cells from H2O2-induced cytotoxicity. Journal of Applied Phycology, 2015, 27, 839-848.	1.5	31
78	Fatty acid composition and biological activities of Isochrysis galbana T-ISO, Tetraselmis sp. and Scenedesmus sp.: possible application in the pharmaceutical and functional food industries. Journal of Applied Phycology, 2014, 26, 151-161.	1.5	66
79	<scp>In vitro</scp> Antitumoral Activity of Compounds Isolated from <scp>Artemisia gorgonum</scp> Webb. Phytotherapy Research, 2014, 28, 1329-1334.	2.8	20
80	Light emitting diodes (LEDs) applied to microalgal production. Trends in Biotechnology, 2014, 32, 422-430.	4.9	282
81	Maritime Halophyte Species from Southern Portugal as Sources of Bioactive Molecules. Marine Drugs, 2014, 12, 2228-2244.	2.2	72
82	Isolation and Fatty Acid Profile of Selected Microalgae Strains from the Red Sea for Biofuel Production. Energies, 2013, 6, 2773-2783.	1.6	56
83	Alternative Sources of n-3 Long-Chain Polyunsaturated Fatty Acids in Marine Microalgae. Marine Drugs, 2013, 11, 2259-2281.	2.2	236
84	Iron Deprivation inSynechocystis: Inference of Pathways, Non-coding RNAs, and Regulatory Elements from Comprehensive Expression Profiling. G3: Genes, Genomes, Genetics, 2012, 2, 1475-1495.	0.8	73
85	Polyunsaturated Fatty Acids of Marine Macroalgae: Potential for Nutritional and Pharmaceutical Applications. Marine Drugs, 2012, 10, 1920-1935.	2.2	252
86	The marine halophytes Carpobrotus edulis L. and Arthrocnemum macrostachyum L. are potential sources of nutritionally important PUFAs and metabolites with antioxidant, metal chelating and anticholinesterase inhibitory activities. Botanica Marina, 2012, 55, 281-288.	0.6	34
87	Microalgae of different phyla display antioxidant, metal chelating and acetylcholinesterase inhibitory activities. Food Chemistry, 2012, 131, 134-140.	4.2	91
88	Brown macroalgae produce anti-leukemia compounds. Planta Medica, 2012, 78, .	0.7	2
89	Microplate-based high throughput screening procedure for the isolation of lipid-rich marine microalgae. Biotechnology for Biofuels, 2011, 4, 61.	6.2	122
90	Molecular and functional characterization of a cDNA encoding 4-hydroxy-3-methylbut-2-enyl diphosphate reductase from Dunaliella salina. Journal of Plant Physiology, 2009, 166, 968-977.	1.6	20

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91	Isolation and characterization of a stress-inducible Dunaliella salina Lcy-Î² gene encoding a functional lycopene Î²-cyclase. Applied Microbiology and Biotechnology, 2008, 79, 819-28.	1.7	65
92	Nutrient Limitation is the Main Regulatory Factor for Carotenoid Accumulation and for Psy and Pds Steady State Transcript Levels in Dunaliella salina (Chlorophyta) Exposed to High Light and Salt Stress. Marine Biotechnology, 2008, 10, 602-11.	1.1	110
93	Biochemistry and molecular biology in Portugal: An overview of past and current contributions. IUBMB Life, 2008, 60, 265-269.	1.5	0
94	Evolutionary Origins and Functions of the Carotenoid Biosynthetic Pathway in Marine Diatoms. PLoS ONE, 2008, 3, e2896.	1.1	134
95	Response of Saccharomyces cerevisiae to changes in external osmolarity. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.7	59
96	Osmostress response of the yeastSaccharomyces. Molecular Microbiology, 1993, 10, 253-258.	1.2	94
97	Osmostress-induced changes in yeast gene expression. Molecular Microbiology, 1992, 6, 2183-2190.	1.2	112