

# João Varela

## List of Publications by Year in descending order

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97  
papers

4,327  
citations

87888

38  
h-index

123424

61  
g-index

100  
all docs

100  
docs citations

100  
times ranked

5268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diel biochemical and photosynthetic monitorization of <i>Skeletonema costatum</i> and <i>Phaeodactylum tricornutum</i> grown in outdoor pilot-scale flat panel photobioreactors. <i>Journal of Biotechnology</i> , 2022, 343, 110-119.	3.8	7
2	Effects of LED lighting on <i>Nannochloropsis oceanica</i> grown in outdoor raceway ponds. <i>Algal Research</i> , 2022, 64, 102685.	4.6	5
3	Optimisation of Biomass Production and Nutritional Value of Two Marine Diatoms ( <i>Bacillariophyceae</i> ), <i>Skeletonema costatum</i> and <i>Chaetoceros calcitrans</i> . <i>Biology</i> , 2022, 11, 594.	2.8	7
4	Microalgae as Potential Sources of Bioactive Compounds for Functional Foods and Pharmaceuticals. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5877.	2.5	17
5	Algae as Food in Europe: An Overview of Species Diversity and Their Application. <i>Foods</i> , 2022, 11, 1871.	4.3	63
6	Drying Microalgae Using an Industrial Solar Dryer: A Biomass Quality Assessment. <i>Foods</i> , 2022, 11, 1873.	4.3	13
7	Random Mutagenesis as a Promising Tool for Microalgal Strain Improvement towards Industrial Production. <i>Marine Drugs</i> , 2022, 20, 440.	4.6	36
8	High-value compound induction by flashing light in <i>Diatronema lutheri</i> and <i>Tetraselmis striata</i> CTP4. <i>Bioresource Technology Reports</i> , 2022, 19, 101158.	2.7	2
9	Flashing light emitting diodes (LEDs) induce proteins, polyunsaturated fatty acids and pigments in three microalgae. <i>Journal of Biotechnology</i> , 2021, 325, 15-24.	3.8	37
10	Microalgae as source of edible lipids. , 2021, , 147-175.		0
11	Operation Regimes: A Comparison Based on <i>Nannochloropsis oceanica</i> Biomass and Lipid Productivity. <i>Energies</i> , 2021, 14, 1542.	3.1	14
12	Nutritional and Functional Evaluation of <i>Inula crithmoides</i> and <i>Mesembryanthemum nodiflorum</i> Grown in Different Salinities for Human Consumption. <i>Molecules</i> , 2021, 26, 4543.	3.8	9
13	In situ monitoring of chlorophyll <i>a</i> fluorescence in <i>Nannochloropsis oceanica</i> cultures to assess photochemical changes and the onset of lipid accumulation during nitrogen deprivation. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4375-4388.	3.3	4
14	Carotenoid biosynthetic gene expression, pigment and n-3 fatty acid contents in carotenoid-rich <i>Tetraselmis striata</i> CTP4 strains under heat stress combined with high light. <i>Bioresource Technology</i> , 2021, 337, 125385.	9.6	21
15	Microalgal Systems for Wastewater Treatment: Technological Trends and Challenges towards Waste Recovery. <i>Energies</i> , 2021, 14, 8112.	3.1	21
16	Lipid composition and some bioactivities of 3 newly isolated microalgae ( <i>Tetraselmis</i> sp. IMP3,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14</i>	2.2	31
17	Improvement of carotenoid extraction from a recently isolated, robust microalga, <i>Tetraselmis</i> sp. CTP4 (chlorophyta). <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 785-796.	3.4	33
18	Wild vs cultivated halophytes: Nutritional and functional differences. <i>Food Chemistry</i> , 2020, 333, 127536.	8.2	43

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19	Anti-Hepatocellular Carcinoma (HepG2) Activities of Monoterpene Hydroxy Lactones Isolated from the Marine Microalga <i>Tisochrysis Lutea</i> . <i>Marine Drugs</i> , 2020, 18, 567.	4.6	17
20	Influence of cultivation salinity in the nutritional composition, antioxidant capacity and microbial quality of <i>Salicornia ramosissima</i> commercially produced in soilless systems. <i>Food Chemistry</i> , 2020, 333, 127525.	8.2	48
21	Antioxidant, Antimicrobial, and Bioactive Potential of Two New Haloarchaeal Strains Isolated from Odiel Salterns (Southwest Spain). <i>Biology</i> , 2020, 9, 298.	2.8	24
22	<i>Nannochloropsis oceanica</i> Cultivation in Pilot-Scale Raceway Ponds – From Design to Cultivation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1725.	2.5	19
23	Isolation and Characterization of Novel <i>Chlorella Vulgaris</i> Mutants With Low Chlorophyll and Improved Protein Contents for Food Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 469.	4.1	61
24	Isolation, Identification and Biotechnological Applications of a Novel, Robust, Free-living <i>Chlorococcum (Oophila) amblystomatis</i> Strain Isolated from a Local Pond. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3040.	2.5	15
25	Incorporation of defatted microalgal biomass ( <i>Tetraselmis</i> sp. CTP4) at the expense of soybean meal as a feed ingredient for juvenile gilthead seabream ( <i>Sparus aurata</i> ). <i>Algal Research</i> , 2020, 47, 101869.	4.6	29
26	Lab-Scale Optimization of <i>Aurantiochytrium</i> sp. Culture Medium for Improved Growth and DHA Production. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2500.	2.5	12
27	Development of an Organic Culture Medium for Autotrophic Production of <i>Chlorella vulgaris</i> Biomass. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2156.	2.5	7
28	Effect of temperature on growth, photosynthesis and biochemical composition of <i>Nannochloropsis oceanica</i> , grown outdoors in tubular photobioreactors. <i>Algal Research</i> , 2020, 49, 101923.	4.6	23
29	Nutritional Potential and Toxicological Evaluation of <i>Tetraselmis</i> sp. CTP4 Microalgal Biomass Produced in Industrial Photobioreactors. <i>Molecules</i> , 2019, 24, 3192.	3.8	57
30	Heterotrophy as a tool to overcome the long and costly autotrophic scale-up process for large scale production of microalgae. <i>Scientific Reports</i> , 2019, 9, 13935.	3.3	66
31	Growth performance, biochemical composition and sedimentation velocity of <i>Tetraselmis</i> sp. CTP4 under different salinities using low-cost lab- and pilot-scale systems. <i>Heliyon</i> , 2019, 5, e01553.	3.2	25
32	Improved phylogeny of brown algae <i>Cystoseira</i> (Fucales) from the Atlantic-Mediterranean region based on mitochondrial sequences. <i>PLoS ONE</i> , 2019, 14, e0210143.	2.5	27
33	Industrial production of <i>Phaeodactylum tricornutum</i> for CO <sub>2</sub> mitigation: biomass productivity and photosynthetic efficiency using photobioreactors of different volumes. <i>Journal of Applied Phycology</i> , 2019, 31, 2187-2196.	2.8	15
34	Report of <i>in vitro</i> antileishmanial properties of Iberian macroalgae. <i>Natural Product Research</i> , 2019, 33, 1778-1782.	1.8	5
35	A comparative study of the <i>in vitro</i> enzyme inhibitory and antioxidant activities of <i>Butea monosperma</i> (Lam.) Taub. and <i>Sesbania grandiflora</i> (L.) Poir. from Pakistan: New sources of natural products for public health problems. <i>South African Journal of Botany</i> , 2019, 120, 146-156.	2.5	16
36	Coupling sea lavender ( <i>Limonium algarvense</i> Erben) and green tea ( <i>Camellia sinensis</i> (L.) Kuntze) to produce an innovative herbal beverage with enhanced enzymatic inhibitory properties. <i>South African Journal of Botany</i> , 2019, 120, 87-94.	2.5	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. <i>Pharmacological Reports</i> , 2018, 70, 896-899.	3.3	4
38	Fluorescence activated cell-sorting principles and applications in microalgal biotechnology. <i>Algal Research</i> , 2018, 30, 113-120.	4.6	54
39	Scale-up and large-scale production of <i>Tetraselmis</i> sp. CTP4 (Chlorophyta) for CO <sub>2</sub> mitigation: from an agar plate to 100-m <sup>3</sup> industrial photobioreactors. <i>Scientific Reports</i> , 2018, 8, 5112.	3.3	57
40	Health promoting potential of herbal teas and tinctures from <i>Artemisia campestris</i> subsp. <i>maritima</i> : from traditional remedies to prospective products. <i>Scientific Reports</i> , 2018, 8, 4689.	3.3	31
41	First report of the <i>in vitro</i> antileishmanial properties of extremophile plants from the Algarve Coast. <i>Natural Product Research</i> , 2018, 32, 600-604.	1.8	12
42	A first glance into the nutritional properties of the sea cucumber <i>Parastichopus regalis</i> from the Mediterranean Sea (SE Spain). <i>Natural Product Research</i> , 2018, 32, 116-120.	1.8	21
43	Composition and bioaccessibility of elements in green seaweeds from fish pond aquaculture. <i>Food Research International</i> , 2018, 105, 271-277.	6.2	33
44	In vitro and in silico approaches to appraise <i>Polygonum maritimum</i> L. as a source of innovative products with anti-ageing potential. <i>Industrial Crops and Products</i> , 2018, 111, 391-399.	5.2	26
45	Antileishmanial activity of meroditerpenoids from the macroalgae <i>Cystoseira baccata</i> . <i>Experimental Parasitology</i> , 2017, 174, 1-9.	1.2	35
46	Halophytes: Gourmet food with nutritional health benefits?. <i>Journal of Food Composition and Analysis</i> , 2017, 59, 35-42.	3.9	127
47	Searching for new sources of innovative products for the food industry within halophyte aromatic plants: In vitro antioxidant activity and phenolic and mineral contents of infusions and decoctions of <i>Crithmum maritimum</i> L.. <i>Food and Chemical Toxicology</i> , 2017, 107, 581-589.	3.6	65
48	Juncaceae species as sources of innovative bioactive compounds for the food industry: In vitro antioxidant activity, neuroprotective properties and in silico studies. <i>Food and Chemical Toxicology</i> , 2017, 107, 590-596.	3.6	12
49	Biochemical profile and in vitro neuroprotective properties of <i>Carpobrotus edulis</i> L., a medicinal and edible halophyte native to the coast of South Africa. <i>South African Journal of Botany</i> , 2017, 111, 222-231.	2.5	35
50	Trends and strategies to enhance triacylglycerols and high-value compounds in microalgae. <i>Algal Research</i> , 2017, 25, 263-273.	4.6	75
51	Unlocking the <i>in vitro</i> anti-inflammatory and antidiabetic potential of <i>Polygonum maritimum</i> . <i>Pharmaceutical Biology</i> , 2017, 55, 1348-1357.	2.9	33
52	<i>Bursatella leachii</i> from Mar Menor as a Source of Bioactive Molecules: Preliminary Evaluation of the Nutritional Profile, In Vitro Biological Activities, and Fatty Acids Contents. <i>Journal of Aquatic Food Product Technology</i> , 2017, 26, 1337-1350.	1.4	5
53	Fatty acid profiles of the main lipid classes of green seaweeds from fish pond aquaculture. <i>Food Science and Nutrition</i> , 2017, 5, 1186-1194.	3.4	37
54	Flashing LEDs for Microalgal Production. <i>Trends in Biotechnology</i> , 2017, 35, 1088-1101.	9.3	65

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55	Chemical profiling of infusions and decoctions of <i>Helichrysum italicum</i> subsp. <i>picardii</i> by UHPLC-PDA-MS and in vitro biological activities comparatively with green tea ( <i>Camellia sinensis</i> ) and rooibos tisane ( <i>Aspalathus linearis</i> ). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 145, 593-603.	2.8	39
56	<i>Cystoseira</i> algae (Fucaceae): update on their chemical entities and biological activities. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 1486-1505.	1.8	40
57	Urban wastewater treatment by <i>Tetraselmis</i> sp. CTP4 (Chlorophyta). <i>Bioresource Technology</i> , 2017, 223, 175-183.	9.6	54
58	Profiling of antioxidant potential and phytoconstituents of <i>Plantago coronopus</i> . <i>Brazilian Journal of Biology</i> , 2017, 77, 632-641.	0.9	17
59	Can macroalgae provide promising anti-tumoral compounds? A closer look at <i>Cystoseira tamariscifolia</i> as a source for antioxidant and anti-hepatocarcinoma compounds. <i>PeerJ</i> , 2016, 4, e1704.	2.0	33
60	Microalgae-based unsaponifiable matter as source of natural antioxidants and metal chelators to enhance the value of wet <i>Tetraselmis chuii</i> biomass. <i>Open Chemistry</i> , 2016, 14, 299-307.	1.9	7
61	Effect of light quality supplied by light emitting diodes (LEDs) on growth and biochemical profiles of <i>Nannochloropsis oculata</i> and <i>Tetraselmis chuii</i> . <i>Algal Research</i> , 2016, 16, 387-398.	4.6	82
62	Natural products from extreme marine environments: Searching for potential industrial uses within extremophile plants. <i>Industrial Crops and Products</i> , 2016, 94, 299-307.	5.2	56
63	Proximate biochemical composition and mineral content of edible species from the genus <i>Cystoseira</i> in Portugal. <i>Botanica Marina</i> , 2016, .	1.2	10
64	Isolation of a euryhaline microalgal strain, <i>Tetraselmis</i> sp. CTP4, as a robust feedstock for biodiesel production. <i>Scientific Reports</i> , 2016, 6, 35663.	3.3	44
65	In vitro antioxidant and anti-inflammatory properties of <i>Limonium algarvense</i> flowers™ infusions and decoctions: A comparison with green tea ( <i>Camellia sinensis</i> ). <i>Food Chemistry</i> , 2016, 200, 322-329.	8.2	78
66	Natural products from marine invertebrates against <i>Leishmania</i> parasites: a comprehensive review. <i>Phytochemistry Reviews</i> , 2016, 15, 663-697.	6.5	12
67	Isololiolide, a carotenoid metabolite isolated from the brown alga <i>Cystoseira tamariscifolia</i> , is cytotoxic and able to induce apoptosis in hepatocarcinoma cells through caspase-3 activation, decreased Bcl-2 levels, increased p53 expression and PARP cleavage. <i>Phytomedicine</i> , 2016, 23, 550-557.	5.3	55
68	Methanol extracts from <i>Cystoseira tamariscifolia</i> and <i>Cystoseira nodicaulis</i> are able to inhibit cholinesterases and protect a human dopaminergic cell line from hydrogen peroxide-induced cytotoxicity. <i>Pharmaceutical Biology</i> , 2016, 54, 1687-1696.	2.9	38
69	First report of the nutritional profile and antioxidant potential of <i>Holothuria arguinensis</i> , a new resource for aquaculture in Europe. <i>Natural Product Research</i> , 2016, 30, 2034-2040.	1.8	28
70	Assessment and comparison of the properties of biodiesel synthesized from three different types of wet microalgal biomass. <i>Journal of Applied Phycology</i> , 2016, 28, 1571-1578.	2.8	13
71	A comparative evaluation of biological activities and bioactive compounds of the seagrasses <i>Zostera marina</i> and <i>Zostera noltei</i> from southern Portugal. <i>Natural Product Research</i> , 2016, 30, 724-728.	1.8	14
72	Biological Activities and Chemical Composition of Methanolic Extracts of Selected Autochthonous Microalgae Strains from the Red Sea. <i>Marine Drugs</i> , 2015, 13, 3531-3549.	4.6	44

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73	Fatty acid profile of different species of algae of the <i>Cystoseira</i> genus: a nutraceutical perspective. <i>Natural Product Research</i> , 2015, 29, 1264-1270.	1.8	30
74	Novel approach to bis(indolyl)methanes: De novo synthesis of 1-hydroxyiminomethyl derivatives with anti-cancer properties. <i>European Journal of Medicinal Chemistry</i> , 2015, 93, 9-15.	5.5	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 <i>Limonium algarvense</i> . <i>Industrial Crops and Products</i> , 2015, 77, 315-322.	5.2	67
77	<i>Botryococcus braunii</i> and <i>Nannochloropsis oculata</i> extracts inhibit cholinesterases and protect human dopaminergic SH-SY5Y cells from H2O2-induced cytotoxicity. <i>Journal of Applied Phycology</i> , 2015, 27, 839-848.	2.8	31
78	Fatty acid composition and biological activities of <i>Isochrysis galbana</i> T-ISO, <i>Tetraselmis</i> sp. and <i>Scenedesmus</i> sp.: possible application in the pharmaceutical and functional food industries. <i>Journal of Applied Phycology</i> , 2014, 26, 151-161.	2.8	66
79	<i>In vitro</i> Antitumoral Activity of Compounds Isolated from <i>Artemisia gorgonum</i> Webb. <i>Phytotherapy Research</i> , 2014, 28, 1329-1334.	5.8	20
80	Light emitting diodes (LEDs) applied to microalgal production. <i>Trends in Biotechnology</i> , 2014, 32, 422-430.	9.3	282
81	Maritime Halophyte Species from Southern Portugal as Sources of Bioactive Molecules. <i>Marine Drugs</i> , 2014, 12, 2228-2244.	4.6	72
82	Isolation and Fatty Acid Profile of Selected Microalgae Strains from the Red Sea for Biofuel Production. <i>Energies</i> , 2013, 6, 2773-2783.	3.1	56
83	Alternative Sources of n-3 Long-Chain Polyunsaturated Fatty Acids in Marine Microalgae. <i>Marine Drugs</i> , 2013, 11, 2259-2281.	4.6	236
84	Iron Deprivation in <i>Synechocystis</i> : Inference of Pathways, Non-coding RNAs, and Regulatory Elements from Comprehensive Expression Profiling. <i>G3: Genes, Genomes, Genetics</i> , 2012, 2, 1475-1495.	1.8	73
85	Polyunsaturated Fatty Acids of Marine Macroalgae: Potential for Nutritional and Pharmaceutical Applications. <i>Marine Drugs</i> , 2012, 10, 1920-1935.	4.6	252
86	The marine halophytes <i>Carpobrotus edulis</i> L. and <i>Arthrocnemum macrostachyum</i> L. are potential sources of nutritionally important PUFAs and metabolites with antioxidant, metal chelating and anticholinesterase inhibitory activities. <i>Botanica Marina</i> , 2012, 55, 281-288.	1.2	34
87	Microalgae of different phyla display antioxidant, metal chelating and acetylcholinesterase inhibitory activities. <i>Food Chemistry</i> , 2012, 131, 134-140.	8.2	91
88	Brown macroalgae produce anti-leukemia compounds. <i>Planta Medica</i> , 2012, 78, .	1.3	2
89	Microplate-based high throughput screening procedure for the isolation of lipid-rich marine microalgae. <i>Biotechnology for Biofuels</i> , 2011, 4, 61.	6.2	122
90	Molecular and functional characterization of a cDNA encoding 4-hydroxy-3-methylbut-2-enyl diphosphate reductase from <i>Dunaliella salina</i> . <i>Journal of Plant Physiology</i> , 2009, 166, 968-977.	3.5	20

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91	Isolation and characterization of a stress-inducible <i>Dunaliella salina</i> Lcy- $\beta$ gene encoding a functional lycopene $\beta$ -cyclase. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 819-28.	3.6	65
92	Nutrient Limitation is the Main Regulatory Factor for Carotenoid Accumulation and for Psy and Pds Steady State Transcript Levels in <i>Dunaliella salina</i> (Chlorophyta) Exposed to High Light and Salt Stress. <i>Marine Biotechnology</i> , 2008, 10, 602-11.	2.4	110
93	Biochemistry and molecular biology in Portugal: An overview of past and current contributions. <i>IUBMB Life</i> , 2008, 60, 265-269.	3.4	0
94	Evolutionary Origins and Functions of the Carotenoid Biosynthetic Pathway in Marine Diatoms. <i>PLoS ONE</i> , 2008, 3, e2896.	2.5	134
95	Response of <i>Saccharomyces cerevisiae</i> to changes in external osmolarity. <i>Microbiology (United Kingdom)</i> 157, 10, 1784-1794. doi:10.1099/mic/0/000000.0	1.8	59
96	Osmostress response of the yeast <i>Saccharomyces</i> . <i>Molecular Microbiology</i> , 1993, 10, 253-258.	2.5	94
97	Osmostress-induced changes in yeast gene expression. <i>Molecular Microbiology</i> , 1992, 6, 2183-2190.	2.5	112