

LuÃ-sa Barreira

List of Publications by Year in descending order

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92
papers

3,918
citations

101543

36
h-index

133252

59
g-index

95
all docs

95
docs citations

95
times ranked

5291
citing authors

#	ARTICLE	IF	CITATIONS
1	Light emitting diodes (LEDs) applied to microalgal production. Trends in Biotechnology, 2014, 32, 422-430.	9.3	282
2	Polyunsaturated Fatty Acids of Marine Macroalgae: Potential for Nutritional and Pharmaceutical Applications. Marine Drugs, 2012, 10, 1920-1935.	4.6	252
3	Alternative Sources of n-3 Long-Chain Polyunsaturated Fatty Acids in Marine Microalgae. Marine Drugs, 2013, 11, 2259-2281.	4.6	236
4	Halophytes: Gourmet food with nutritional health benefits?. Journal of Food Composition and Analysis, 2017, 59, 35-42.	3.9	127
5	Microplate-based high throughput screening procedure for the isolation of lipid-rich marine microalgae. Biotechnology for Biofuels, 2011, 4, 61.	6.2	122
6	Effect of cadmium on antioxidant enzyme activities and lipid peroxidation in the gills of the clam <i>Ruditapes decussatus</i> . Biomarkers, 2002, 7, 242-256.	1.9	119
7	Evidence for Free Radical Generation Due to NADH Oxidation by Aldehyde Oxidase During Ethanol Metabolism. Archives of Biochemistry and Biophysics, 1995, 318, 53-58.	3.0	102
8	Response of antioxidant systems to copper in the gills of the clam <i>Ruditapes decussatus</i> . Marine Environmental Research, 2002, 54, 413-417.	2.5	92
9	Microalgae of different phyla display antioxidant, metal chelating and acetylcholinesterase inhibitory activities. Food Chemistry, 2012, 131, 134-140.	8.2	91
10	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> . Algal Research, 2016, 16, 387-398.	4.6	82
11	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>). Food Chemistry, 2016, 200, 322-329.	8.2	78
12	A multibiomarker approach in <i>Mytilus galloprovincialis</i> to assess environmental quality. Journal of Environmental Monitoring, 2009, 11, 1673.	2.1	77
13	Trends and strategies to enhance triacylglycerols and high-value compounds in microalgae. Algal Research, 2017, 25, 263-273.	4.6	75
14	Iron Deprivation in <i>Synechocystis</i> : Inference of Pathways, Non-coding RNAs, and Regulatory Elements from Comprehensive Expression Profiling. G3: Genes, Genomes, Genetics, 2012, 2, 1475-1495.	1.8	73
15	Maritime Halophyte Species from Southern Portugal as Sources of Bioactive Molecules. Marine Drugs, 2014, 12, 2228-2244.	4.6	72
16	Unravelling the antioxidant potential and the phenolic composition of different anatomical organs of the marine halophyte <i>Limonium algarvense</i> . Industrial Crops and Products, 2015, 77, 315-322.	5.2	67
17	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. Journal of Applied Phycology, 2014, 26, 151-161.	2.8	66
18	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.. Food and Chemical Toxicology, 2017, 107, 581-589.	3.6	65

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19	Scale-up and large-scale production of <i>Tetraselmis</i> sp. CTP4 (Chlorophyta) for CO ₂ mitigation: from an agar plate to 100-m ³ industrial photobioreactors. <i>Scientific Reports</i> , 2018, 8, 5112.	3.3	57
20	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
21	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
22	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
23	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
24	Improved production of lutein and β -carotene by thermal and light intensity upshifts in the marine microalga <i>Tetraselmis</i> sp. CTP4. <i>Algal Research</i> , 2020, 45, 101732.	4.6	55
25	Urban wastewater treatment by <i>Tetraselmis</i> sp. CTP4 (Chlorophyta). <i>Bioresource Technology</i> , 2017, 223, 175-183.	9.6	54
26	Fluorescence activated cell-sorting principles and applications in microalgal biotechnology. <i>Algal Research</i> , 2018, 30, 113-120.	4.6	54
27	Sterols in the Ria Formosa lagoon, Portugal. <i>Water Research</i> , 1999, 33, 1038-1048.	11.3	52
28	Polycyclic aromatic hydrocarbons concentrations and biomarker responses in the clam <i>Ruditapes decussatus</i> transplanted in the Ria Formosa lagoon. <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 1849-1860.	6.0	50
29	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
30	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
31	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
32	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
33	Wild vs cultivated halophytes: Nutritional and functional differences. <i>Food Chemistry</i> , 2020, 333, 127536.	8.2	43
34	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
35	Impact of benzo(a)pyrene, Cu and their mixture on the proteomic response of <i>Mytilus galloprovincialis</i> . <i>Aquatic Toxicology</i> , 2013, 144-145, 284-295.	4.0	38
36	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

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37	Fatty acids in the Ria Formosa Lagoon, Portugal. <i>Organic Geochemistry</i> , 1998, 29, 963-977.	1.8	37
38	Antileishmanial activity of meroditerpenoids from the macroalgae <i>Cystoseira baccata</i> . <i>Experimental Parasitology</i> , 2017, 174, 1-9.	1.2	35
39	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
40	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
41	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
42	Unlocking the in vitro anti-inflammatory and antidiabetic potential of <i>Polygonum maritimum</i> . <i>Pharmaceutical Biology</i> , 2017, 55, 1348-1357.	2.9	33
43	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
44	<i>Botryococcus braunii</i> and <i>Nannochloropsis oculata</i> extracts inhibit cholinesterases and protect human dopaminergic SH-SY5Y cells from H ₂ O ₂ -induced cytotoxicity. <i>Journal of Applied Phycology</i> , 2015, 27, 839-848.	2.8	31
45	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
46	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 38</i>	2.2	31
47	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
48	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
49	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
50	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
51	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
52	Protein Sources Alternative to Meat: State of the Art and Involvement of Fermentation. <i>Foods</i> , 2022, 11, 2065.	4.3	25
53	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
54	Oxidative stress in the clam <i>Ruditapes decussatus</i> (Linnaeus, 1758) in relation to polycyclic aromatic hydrocarbon body burden. <i>Environmental Toxicology</i> , 2007, 22, 203-221.	4.0	22

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55	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
56	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
57	Microalgal Systems for Wastewater Treatment: Technological Trends and Challenges towards Waste Recovery. <i>Energies</i> , 2021, 14, 8112.	3.1	21
58	Polycyclic aromatic hydrocarbons in clams <i>Ruditapes decussatus</i> (Linnaeus, 1758). <i>Journal of Environmental Monitoring</i> , 2007, 9, 187.	2.1	19
59	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
60	Concentration and Sources of Polycyclic Aromatic Hydrocarbons in Sediments from the Ria Formosa Lagoon. <i>Environmental Forensics</i> , 2007, 8, 231-243.	2.6	18
61	Exploring saccharinate-tetrazoles as selective Cu(II) ligands: structure, magnetic properties and cytotoxicity of copper(II) complexes based on 5-(3-aminosaccharyl)-tetrazoles. <i>RSC Advances</i> , 2016, 6, 71628-71637.	3.6	18
62	A new insight into the influence of habitat on the biochemical properties of three commercial sea cucumber species. <i>International Aquatic Research</i> , 2018, 10, 361-373.	1.5	18
63	Profiling of antioxidant potential and phytoconstituents of <i>Plantago coronopus</i> . <i>Brazilian Journal of Biology</i> , 2017, 77, 632-641.	0.9	17
64	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
65	Microalgae as Potential Sources of Bioactive Compounds for Functional Foods and Pharmaceuticals. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5877.	2.5	17
66	Synthesis and anti-cancer activity of chiral tetrahydropyrazolo[1,5-a]pyridine-fused steroids. <i>Steroids</i> , 2017, 122, 16-23.	1.8	16
67	A comparative study of the in vitro enzyme inhibitory and antioxidant activities of <i>Butea monosperma</i> (Lam.) Taub. and <i>Sesbania grandiflora</i> (L.) Poiret 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
68	Spatial and seasonal biomarker responses in the clam <i>Ruditapes decussatus</i> . <i>Biomarkers</i> , 2013, 18, 30-43.	1.9	15
69	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
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	Hetero-Diels-Alder approach to Bis(indolyl)methanes. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1122-1131.	3.0	13
72	Natural products from marine invertebrates against <i>Leishmania</i> parasites: a comprehensive review. <i>Phytochemistry Reviews</i> , 2016, 15, 663-697.	6.5	12

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73	Juncaceae species as sources of innovative bioactive compounds for the food industry: In vitro antioxidant activity, neuroprotective properties and in silico studies. Food and Chemical Toxicology, 2017, 107, 590-596.	3.6	12
74	First report of the <i>in vitro</i> antileishmanial properties of extremophile plants from the Algarve Coast. Natural Product Research, 2018, 32, 600-604.	1.8	12
75	Unlocking the <i>in vitro</i> anti-Trypanosoma cruzi activity of halophyte plants from the southern Portugal. Asian Pacific Journal of Tropical Medicine, 2016, 9, 735-741.	0.8	11
76	Proximate biochemical composition and mineral content of edible species from the genus Cystoseira in Portugal. Botanica Marina, 2016, .	1.2	10
77	Synthesis, Structure, and Cytotoxicity of a New Sulphonyl-Bridged Thiadiazolyl Saccharinate Conjugate: The Relevance of Sâ...â...N Interaction. Chemistry - A European Journal, 2018, 24, 3251-3262.	3.3	9
78	Nutritional and Functional Evaluation of Inula crithmoides and Mesembryanthemum nodiflorum Grown in Different Salinities for Human Consumption. Molecules, 2021, 26, 4543.	3.8	9
79	Relationship between PCBs in suspended and settled sediments from a coastal lagoon. Ciencias Marinas, 2005, 31, 179-195.	0.4	8
80	Medicinal Effects of Microalgae-Derived Fatty Acids. , 2015, , 209-231.		7
81	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.	1.9	7
82	<i>Bursatella leachii</i> from Mar Menor as a Source of Bioactive Molecules: Preliminary Evaluation of the Nutritional Profile, <i>In Vitro</i> Biological Activities, and Fatty Acids Contents. Journal of Aquatic Food Product Technology, 2017, 26, 1337-1350.	1.4	5
83	Report of <i>in vitro</i> antileishmanial properties of Iberian macroalgae. Natural Product Research, 2019, 33, 1778-1782.	1.8	5
84	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.	3.3	4
85	On the Development of Selective Chelators for Cadmium: Synthesis, Structure and Chelating Properties of 3-((5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl)amino)benzo[d]isothiazole 1,1-dioxide, a Novel Thiadiazolyl Saccharinate. Molecules, 2021, 26, 1501.	3.8	4
86	Brown macroalgae produce anti-leukemia compounds. Planta Medica, 2012, 78, .	1.3	2
87	Antioxidant and neuroprotective potential of two halophytes from the Algarve coast. Planta Medica, 2014, 80, .	1.3	2
88	Microalgae of different phyla display antioxidant, metal chelating and acetylcholinesterase inhibitory activities. Planta Medica, 2012, 78, .	1.3	1
89	Microalgae as source of edible lipids. , 2021, , 147-175.		0
90	Antitumoural activity of Cystoseira species: Insights into the mechanism of action. Planta Medica, 2014, 80, .	1.3	0

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91	Influence of the extraction method on the antiprotozoal activity of two Iberian <i>Cystoseira</i> species. <i>Planta Medica</i> , 2014, 80, .	1.3	0
92	In vitro anti-diabetic properties of different organs of two <i>Juncaceae</i> species. <i>Planta Medica</i> , 2014, 80, .	1.3	0