Joô Serđio

List of Publications by Citations

115 papers	3,169 citations	30 h-index	52 g-index
122 ext. papers	3,840 ext. citations	3.5 avg, IF	5.32 L-index

#	Paper	IF	Citations
115	Frequently asked questions about in vivo chlorophyll fluorescence: practical issues. *Photosynthesis Research*, **2014**, 122, 121-58	3.7	435
114	Trends in the discovery of new marine natural products from invertebrates over the last two decades--where and what are we bioprospecting?. *PLoS ONE*, **2012**, 7, e30580	3.7	167
113	NONDESTRUCTIVE TRACING OF MIGRATORY RHYTHMS OF INTERTIDAL BENTHIC MICROALGAE USING IN VIVO CHLOROPHYLL A FLUORESCENCE1,2. *Journal of Phycology*, **1997**, 33, 542-553	3	158
112	Non-photochemical quenching of chlorophyll fluorescence and operation of the xanthophyll cycle in estuarine microphytobenthos. *Journal of Experimental Marine Biology and Ecology*, **2005**, 326, 157-169	2.1	82
111	Rapid light-response curves of chlorophyll fluorescence in microalgae: relationship to steady-state light curves and non-photochemical quenching in benthic diatom-dominated assemblages. *Photosynthesis Research*, **2006**, 90, 29-43	3.7	80
110	Use of in vivo chlorophyll a fluorescence to quantify short-term variations in the productive biomass of intertidal microphytobenthos. *Marine Ecology - Progress Series*, **2001**, 218, 45-61	2.6	76
109	Vertical cell movement is a primary response of intertidal benthic biofilms to increasing light dose. *Marine Ecology - Progress Series*, **2010**, 416, 93-103	2.6	74
108	Physiological versus behavioral photoprotection in intertidal epipelic and epipsammic benthic diatom communities. *Journal of Experimental Marine Biology and Ecology*, **2011**, 405, 120-127	2.1	73
107	Short-term variability in the photosynthetic activity of microphytobenthos as detected by measuring rapid light curves using variable fluorescence. *Marine Biology*, **2005**, 146, 903-914	2.5	71
106	Photosynthetic activity, photoprotection and photoinhibition in intertidal microphytobenthos as studied in situ using variable chlorophyll fluorescence. *Continental Shelf Research*, **2008**, 28, 1363-1375	2.4	67
105	Microphytobenthos vertical migratory photoresponse as characterised by light-response curves of surface biomass. *Estuarine, Coastal and Shelf Science*, **2006**, 68, 547-556	2.9	66
104	Modelling the primary productivity of intertidal microphytobenthos:time scales of variability and effects of migratory rhythms. *Marine Ecology - Progress Series*, **2000**, 192, 13-30	2.6	65
103	A model for describing the light response of the nonphotochemical quenching of chlorophyll fluorescence. *Photosynthesis Research*, **2011**, 108, 61-76	3.7	64
102	Spatio-temporal distribution of the microphytobenthic biomass in intertidal flats of Tagus Estuary (Portugal). *Hydrobiologia*, **1995**, 300-301, 93-104	2.4	63
101	Photophysiology of kleptoplasts: photosynthetic use of light by chloroplasts living in animal cells. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20130242	5.8	61
100	Relationship of rapid light curves of variable fluorescence to photoacclimation and non-photochemical quenching in a benthic diatom. *Aquatic Botany*, **2008**, 88, 256-264	1.8	58
99	Analysis of variable chlorophyll fluorescence in microphytobenthos assemblages: implications of the use of depth-integrated measurements. *Aquatic Microbial Ecology*, **2004**, 36, 137-152	1.1	56

98	Ecology of intertidal microbial biofilms: Mechanisms, patterns and future research needs. *Journal of Sea Research*, **2014**, 92, 2-5	1.9	51
97	Effects of light exposure on the retention of kleptoplastic photosynthetic activity in the sacoglossan mollusc Elysia viridis. *Marine Biology*, **2009**, 156, 1007-1020	2.5	44
96	Crawling leaves: photosynthesis in sacoglossan sea slugs. *Journal of Experimental Botany*, **2013**, 64, 3999-4009	7	43
95	Efficiency of photoprotection in microphytobenthos: role of vertical migration and the xanthophyll cycle against photoinhibition. *Aquatic Microbial Ecology*, **2012**, 67, 161-175	1.1	43
94	Response of intertidal benthic microalgal biofilms to a coupled light-temperature stress: evidence for latitudinal adaptation along the Atlantic coast of Southern Europe. *Environmental Microbiology*, **2015**, 17, 3662-77	5.2	41
93	Evaluation of pharmaceutical toxic effects of non-standard endpoints on the macrophyte species Lemna minor and Lemna gibba. *Science of the Total Environment*, **2019**, 657, 926-937	10.2	37
92	Fortnightly light and temperature variability in estuarine intertidal sediments and implications for microphytobenthos primary productivity. *Aquatic Ecology*, **1999**, 33, 235-241	1.9	36
91	Defining phytoplankton class boundaries in Portuguese transitional waters: An evaluation of the ecological quality status according to the Water Framework Directive. *Ecological Indicators*, **2012**, 19, 5-14	5.8	34
90	Endogenous versus environmental control of vertical migration by intertidal benthic microalgae. *European Journal of Phycology*, **2011**, 46, 271-281	2.2	34
89	Effects of desiccation on the photosynthetic activity of intertidal microphytobenthos biofilms as studied by optical methods. *Journal of Experimental Marine Biology and Ecology*, **2009**, 381, 98-104	2.1	34
88	Chlorophyll fluorescence and oxidative stress endpoints to discriminate olive cultivars tolerance to drought and heat episodes. *Scientia Horticulturae*, **2018**, 231, 31-35	4.1	33
87	Effects of chlorophyll fluorescence on the estimation of microphytobenthos biomass using spectral reflectance indices. *Remote Sensing of Environment*, **2009**, 113, 1760-1768	13.2	32
86	Photoprotection in a monophyletic branch of chlorophyte algae is independent of energy-dependent quenching (qE). *New Phytologist*, **2017**, 214, 1132-1144	9.8	30
85	Photoacclimation state determines the photobehaviour of motile microalgae: The case of a benthic diatom. *Journal of Experimental Marine Biology and Ecology*, **2015**, 468, 11-20	2.1	30
84	In situ measurements of photosynthetic activity and respiration of intertidal benthic microalgal communities undergoing vertical migration. *Ophelia*, **2003**, 57, 13-26		30
83	Description of Freudenthalidium gen. nov. and Halluxium gen. nov. to Formally Recognize Clades Fr3 and H as Genera in the Family Symbiodiniaceae (Dinophyceae). *Journal of Phycology*, **2020**, 56, 923-940	3	29
82	Comparative performance of light emitting plasma (LEP) and light emitting diode (LED) in ex situ aquaculture of scleractinian corals. *Aquaculture*, **2013**, 402-403, 38-45	4.4	29
81	Photoprotection in sequestered plastids of sea slugs and respective algal sources. *Scientific Reports* , **2015**, 5, 7904	4.9	29

80	Inhibiting diatom motility: a new tool for the study of the photophysiology of intertidal microphytobenthic biofilms. *Limnology and Oceanography: Methods*, **2008**, 6, 466-476	2.6	29
79	Light response curves for Gelidium sesquipedale from different depths, determined by two methods: O2 evolution and chlorophyll fluorescence. *Journal of Applied Phycology*, **1998**, 10, 295-301	3.2	27
78	Polymorphic adaptations in metazoans to establish and maintain photosymbioses. *Biological Reviews*, **2018**, 93, 2006-2020	13.5	26
77	Effect of light intensity on post-fragmentation photobiological performance of the soft coral Sinularia flexibilis. *Aquaculture*, **2013**, 388-391, 24-29	4.4	25
76	A CHLOROPHYLL FLUORESCENCE INDEX TO ESTIMATE SHORT-TERM RATES OF PHOTOSYNTHESIS BY INTERTIDAL MICROPHYTOBENTHOS1. *Journal of Phycology*, **2003**, 39, 33-46	3	25
75	Photoinhibition in benthic diatom assemblages under light stress. *Aquatic Microbial Ecology*, **2013**, 70, 87-92	1.1	24
74	Coral symbiotic algae calcify ex hospite in partnership with bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6158-63	11.5	23
73	A method for the rapid generation of nonsequential light-response curves of chlorophyll fluorescence. *Plant Physiology*, **2013**, 163, 1089-102	6.6	22
72	The importance of being fast: comparative kinetics of vertical migration and non-photochemical quenching of benthic diatoms under light stress. *Marine Biology*, **2016**, 163, 1	2.5	22
71	Development of a Standardized Modular System for Experimental Coral Culture. *Journal of the World Aquaculture Society*, **2015**, 46, 235-251	2.5	20
70	Beauties and beasts: A portrait of sea slugs aquaculture. *Aquaculture*, **2013**, 408-409, 1-14	4.4	20
69	Photobiology and growth of leather coral Sarcophyton cf. glaucum fragments stocked under low light in a recirculated system. *Aquaculture*, **2013**, 414-415, 235-242	4.4	19
68	The Application of Variable Chlorophyll Fluorescence to Microphytobenthic Biofilms **2010**, 237-275		19
67	Relationship of variable chlorophyll fluorescence indices to photosynthetic rates in microphytobenthos. *Aquatic Microbial Ecology*, **2007**, 49, 71-85	1.1	18
66	Evaluation of physiological changes induced by the fluoroquinolone antibiotic ciprofloxacin in the freshwater macrophyte species Lemna minor and Lemna gibba. *Environmental Toxicology and Pharmacology*, **2019**, 72, 103242	5.8	17
65	Concurrent imaging of chlorophyll fluorescence, Chlorophyll a content and green fluorescent proteins-like proteins of symbiotic cnidarians. *Marine Ecology*, **2015**, 36, 572-584	1.4	17
64	Evidence for gravitactic behaviour in benthic diatoms. *European Journal of Phycology*, **2014**, 49, 429-435	2.2	17
63	Fatty acid profiles indicate the habitat of mud snails Hydrobia ulvae within the same estuary: Mudflats vs. seagrass meadows. *Estuarine, Coastal and Shelf Science*, **2011**, 92, 181-187	2.9	17

62	Preliminary evaluation of the toxic effects of the antifouling biocide Sea-Nine 211 in the soft coral Sarcophyton cf. glaucum (Octocorallia, Alcyonacea) based on PAM fluorometry and biomarkers. *Marine Environmental Research*, **2013**, 83, 16-22	3.3	16
61	Photobiology of the symbiotic acoel flatworm Symsagittifera roscoffensis: algal symbiont photoacclimation and host photobehaviour. *Journal of the Marine Biological Association of the United Kingdom*, **2011**, 91, 163-171	1.1	16
60	A chlorophyll fluorescence-based method for the integrated characterization of the photophysiological response to light stress. *Journal of Experimental Botany*, **2017**, 68, 1123-1135	7	14
59	Trophic web structure and ecosystem attributes of a temperate coastal lagoon (Ria de Aveiro, Portugal). *Ecological Modelling*, **2018**, 378, 13-25	3	14
58	Cell Cycle Dynamics of Cultured Coral Endosymbiotic Microalgae (Symbiodinium) Across Different Types (Species) Under Alternate Light and Temperature Conditions. *Journal of Eukaryotic Microbiology*, **2018**, 65, 505-517	3.6	14
57	Pigment profile in the photosynthetic sea slugElysia viridis(Montagu, 1804). *Journal of Molluscan Studies*, **2014**, 80, 475-481	1.1	14
56	Effect of light, temperature and diet on the fatty acid profile of the tropical sea anemone Aiptasia pallida. *Aquaculture Nutrition*, **2013**, 19, 818-826	3.2	14
55	Photosynthetic activity and ecology of benthic diatom communities from streams affected by Acid Mine Drainage (AMD) in pyritic mines. *Fundamental and Applied Limnology*, **2013**, 182, 47-59	1.9	14
54	EFFECTS OF TWO MOTILITY INHIBITORS ON THE PHOTOSYNTHETIC ACTIVITY OF THE DIATOMS CYLINDROTHECA CLOSTERIUM AND PLEUROSIGMA ANGULATUM. *Diatom Research*, **2008**, 23, 65-74	0.9	14
53	In vivo quantification of kleptoplastic chlorophyll a content in the "solar-powered" sea slug Elysia viridis using optical methods: spectral reflectance analysis and PAM fluorometry. *Photochemical and Photobiological Sciences*, **2010**, 9, 68-77	4.2	13
52	Modulation of the light field related to valve optical properties of raphid diatoms: implications for niche differentiation in the microphytobenthos. *Marine Ecology - Progress Series*, **2018**, 588, 29-42	2.6	13
51	Glyphosate-dependent effects on photosynthesis of Solanum lycopersicum L.-An ecophysiological, ultrastructural and molecular approach. *Journal of Hazardous Materials*, **2020**, 398, 122871	12.8	12
50	The ability to incorporate functional plastids by the sea slug Elysia viridis is governed by its food source. *Marine Biology*, **2018**, 165, 1	2.5	12
49	Anesthetizing solar-powered sea slugs for photobiological studies. *Biological Bulletin*, **2012**, 223, 328-36	1.5	12
48	Photoinhibition of Photosystem II in Phytoplankton: Processes and Patterns. *Advances in Photosynthesis and Respiration*, **2020**, 329-365	1.7	12
47	The the bre sampler: A new high-resolution method for the fast vertical sampling of intertidal fine sediments. *Journal of Experimental Marine Biology and Ecology*, **2015**, 468, 37-44	2.1	10
46	Synoptic Spatio-Temporal Variability of the Photosynthetic Productivity of Microphytobenthos and Phytoplankton in a Tidal Estuary. *Frontiers in Marine Science*, **2020**, 7,	4.5	10
45	Physiological performance of drought-stressed olive plants when exposed to a combined heat-UV-B shock and after stress relief. *Functional Plant Biology*, **2018**, 45, 1233-1240	2.7	10

44	Neptunomonas phycophila sp. nov. isolated from a culture of Symbiodinium sp., a dinoflagellate symbiont of the sea anemone Aiptasia tagetes. *International Journal of Systematic and Evolutionary Microbiology*, **2015**, 65, 915-919	2.2	10
43	Photoinactivation, repair and the motility-physiology trade-off in microphytobenthos. *Marine Ecology - Progress Series*, **2018**, 601, 41-57	2.6	10
42	Effect of spatio-temporal shifts in salinity combined with other environmental variables on the ecological processes provided by Zostera noltei meadows. *Scientific Reports*, **2017**, 7, 1336	4.9	9
41	Influence of Foliar Kaolin Application and Irrigation on Photosynthetic Activity of Grape Berries. *Agronomy*, **2019**, 9, 685	3.6	8
40	The circatidal rhythm of the estuarine gastropod Hydrobia ulvae (Gastropoda: Hydrobiidae). *Biological Journal of the Linnean Society*, **2010**, 100, 439-450	1.9	8
39	Nondestructive quantification of phytoplankton gut content of brachyuran crab megalopae using in vivo chlorophyll a fluorescence. *Journal of Plankton Research*, **2009**, 31, 577-581	2.2	8
38	A mathematical model for the vertical distribution of chlorophyllA in estuarine intertidal sediments. *Netherlands Journal of Aquatic Ecology*, **1995**, 29, 315-321		8
37	An LED-based multi-actinic illumination system for the high throughput study of photosynthetic light responses. *PeerJ*, **2018**, 6, e5589	3.1	8
36	White but not bleached: photophysiological evidence from white Montastraea cavernosa reveals potential overestimation of coral bleaching. *Marine Biology*, **2015**, 162, 889-899	2.5	7
35	Photobiology of the zoanthid Zoanthus sociatus in intertidal and subtidal habitats. *Marine and Freshwater Research*, **2016**, 67, 1991	2.2	7
34	Photoinhibition in optically thick samples: Effects of light attenuation on chlorophyll fluorescence-based parameters. *Journal of Theoretical Biology*, **2021**, 513, 110580	2.3	7
33	Photoprotective Non-photochemical Quenching Does Not Prevent Kleptoplasts From Net Photoinactivation. *Frontiers in Ecology and Evolution*, **2018**, 6,	3.7	7
32	One pulse, one light curve: Fast characterization of the light response of microphytobenthos biofilms using chlorophyll fluorescence. *Limnology and Oceanography: Methods*, **2017**, 15, 554-566	2.6	6
31	Identification of scavenger receptors and thrombospondin-type-1 repeat proteins potentially relevant for plastid recognition in Sacoglossa. *Ecology and Evolution*, **2020**, 10, 12348-12363	2.8	6
30	The effect of mixotrophy in the ex situ culture of the soft coral Sarcophyton cf. glaucum. *Aquaculture*, **2016**, 452, 151-159	4.4	6
29	Searching for antigenotoxic properties of marine macroalgae dietary supplementation against endogenous and exogenous challenges. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2018**, 81, 939-956	3.2	6
28	A modeling study of light extinction due to cohesive sediments in a shallow coastal lagoon under well mixed conditions. *Science of the Total Environment*, **2019**, 694, 133707	10.2	5
27	Effect of tidal environment on the trophic balance of mixotrophic hexacorals using biochemical profile and photochemical performance as indicators. *Marine Environmental Research*, **2018**, 135, 55-62	3.3	5

26	Pheophorbide a in Hydrobia ulvae faecal pellets as a measure of microphytobenthos ingestion: variation over season and period of day. *Aquatic Biology*, **2011**, 13, 119-126	2	5
25	Primary production of the benthic microalgae in the bottom sediments of Ria de Aveiro lagoon. *Journal of Coastal Research*, **2016**, 75, 178-182	0.6	5
24	Impact of air exposure on the photobiology and biochemical profile of an aggressive intertidal competitor, the zoanthid Palythoa caribaeorum. *Marine Biology*, **2016**, 163, 1	2.5	5
23	New insights about the primary production dependence on abiotic factors: Ria de Aveiro case study. *Ecological Indicators*, **2019**, 106, 105555	5.8	5
22	Functional resilience of PSII, vertical distribution and ecosystem-level estimates of subsurface microphytobenthos in estuarine tidal flats. *Continental Shelf Research*, **2019**, 182, 46-56	2.4	4
21	Symbiolite formation: a powerful in vitro model to untangle the role of bacterial communities in the photosynthesis-induced formation of microbialites. *ISME Journal*, **2020**, 14, 1533-1546	11.9	4
20	Chloroplast functionality assessment by flow cytometry: Case study with pea plants under Paraquat stress. *Photosynthetica*, **2012**, 50, 197-205	2.2	4
19	Temporal physiological response of pine to Fusarium circinatum infection is dependent on host susceptibility level: the role of ABA catabolism. *Tree Physiology*, **2021**, 41, 801-816	4.2	4
18	Effect of temperature on the phytotoxicity and cytotoxicity of Botryosphaeriaceae fungi. *Fungal Biology*, **2020**, 124, 571-578	2.8	3
17	-Induced Formation of Microbialites: Mechanistic Insights From Experiments and the Prospect of Its Occurrence in Nature. *Frontiers in Microbiology*, **2018**, 9, 998	5.7	3
16	Ulvophyceaen photophysiology and research opportunities. *Perspectives in Phycology*, **2017**, 4, 83-92	3.1	3
15	Relationship Between Chlorophyll Fluorescence Quenching and O2 Evolution in Microalgae **1998**, 4109-4112		3
14	Use of hyperspectral reflectance to non-destructively estimate seagrass Zostera noltei biomass. *Ecological Indicators*, **2021**, 121, 107018	5.8	3
13	Toxicity of Recombinant Necrosis and Ethylene-Inducing Proteins (NLPs) from. *Toxins*, **2020**, 12,	4.9	2
12	Repeated cycles of immersion and emersion amplify the crawling rhythm of the intertidal gastropod Hydrobia ulvae. *Journal of the Marine Biological Association of the United Kingdom*, **2012**, 92, 565-570	1.1	2
11	Impact of climate change on the ontogenetic development of olar-powered sea slugs. *Marine Ecology - Progress Series*, **2017**, 578, 87-97	2.6	2
10	Effects of the Inoculant Strain Pseudomonas sp. SPN31 nah and of 2-Methylnaphthalene Contamination on the Rhizosphere and Endosphere Bacterial Communities of Halimione portulacoides. *Current Microbiology*, **2017**, 74, 575-583	2.4	1
9	Impact of the Light Microclimate on Photosynthetic Activity of Grape Berry (Vitis vinifera): Insights for Radiation Absorption Mitigations Measures. *Climate Change Management*, **2018**, 419-441	0.6	1

8	Kleptoplasts are continuously digested during feeding in the plastid-bearing sea slug Elysia viridis. *Journal of Molluscan Studies*, **2021**, 87,	1.1	1
7	The complete mitochondrial genome of the photosymbiotic sea slug (Valdš, 2005) (Gastropoda, Nudibranchia). *Mitochondrial DNA Part B: Resources*, **2021**, 6, 2281-2284	0.5	0
6	Diatom Motility: Mechanisms, Control and Adaptive Value **2021**, 159-183		0
5	Replying to Domingues et al., Ecological Indicators, 24, 245–255, http://dx.doi.org/10.1016/j.ecolind.2012.06.020. *Ecological Indicators*, **2013**, 27, 123-124	5.8	
4	Potential Impact of Photoinhibition on Microphytobenthic Primary Production on a Large Intertidal Mudflat. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126, e2021JG006443	3.7	
3	Photoinhibition: Fundamentals and Implications for Primary Productivity. *Encyclopedia of the UN Sustainable Development Goals*, **2022**, 809-822	0.1	
2	Diatoms and Their Ecological Importance. *Encyclopedia of the UN Sustainable Development Goals*, **2022**, 304-312	0.1	
1	Role of Microphytobenthos in the Functioning of Estuarine and Coastal Ecosystems. *Encyclopedia of the UN Sustainable Development Goals*, **2022**, 894-906	0.1	