Beariz Fernandez-Marin

List of Publications by Year
in descending order

68 papers	2,207 citations	218662 26 h-index	243610 44 g-index
68 all docs	68 docs citations	68 times ranked	2579 citing authors

#	Article	IF	Citations
1	More than just lipid balls: quantitative analysis of plastoglobule attributes and their stress-related responses. Planta, 2022, 255, 62.	3.2	12
2	When time is not of the essence: constraints to the carbon balance of bryophytes. Journal of Experimental Botany, 2022, , .	4.8	6
3	How dry is dry? Molecular mobility in relation to thallus water content in a lichen. Journal of Experimental Botany, 2021, 72, 1576-1588.	4.8	24
4	Unexpected Vulnerability to High Temperature in the Mediterranean Alpine Shrub Erysimum scoparium (Brouss. ex Willd.) Wettst. Plants, 2021, 10, 379.	3.5	3
5	Combined dynamics of the 500â€“600Ânm leaf absorption and chlorophyll fluorescence changes in vivo: Evidence for the multifunctional energy quenching role of xanthophylls. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148351.	1.0	13
6	Alpine forbs rely on different photoprotective strategies during spring snowmelt. Physiologia Plantarum, 2021, 172, 1506-1517.	5.2	9
7	Shedding light on the dark side of xanthophyll cycles. New Phytologist, 2021, 230, 1336-1344.	7.3	37
8	Frozen in the dark: interplay of night-time activity of xanthophyll cycle, xylem attributes, and desiccation tolerance in fern resistance to winter. Journal of Experimental Botany, 2021, 72, 3168-3184.	4.8	10
9	Coexistent Heteroblastic Needles of Adult Pinus canariensis C.Sm. ex DC. in Buch Trees Differ Structurally and Physiologically. Forests, 2021, 12, 341.	2.1	5
10	Differences in biochemical, gas exchange and hydraulic response to water stress in desiccation tolerant and sensitive fronds of the fern Anemia caffrorum. New Phytologist, 2021, 231, 1415-1430.	7.3	15
11	Chlorophyll a fluorescence illuminates a path connecting plant molecular biology to Earth-system science. Nature Plants, 2021, 7, 998-1009.	9.3	88
12	Photosynthesis on the edge: photoinhibition, desiccation and freezing tolerance of Antarctic bryophytes. Photosynthesis Research, 2020, 149, 135-153.	2.9	21
13	Born to revive: molecular and physiological mechanisms of double tolerance in a paleotropical and resurrection plant. New Phytologist, 2020, 226, 741-759.	7.3	34
14	Ecophysiological changes and spore formation: two strategies in response to lowâ€temperature and highâ€light stress in Klebsormidium cf. flaccidum (Klebsormidiophyceae,) Tj ETQq0 0 0 rgBT /Overloc	2.3	0 Tf 50 217 Td (St
15	Summit evergreen shrubs living at a semiâ€arid treeline: photoprotection systems activation in an open vs an understory site. Physiologia Plantarum, 2020, 169, 228-243.	5.2	2
16	How do vascular plants perform photosynthesis in extreme environments? An integrative ecophysiological and biochemical story. Plant Journal, 2020, 101, 979-1000.	5.7	42
17	Desiccation Tolerance in Chlorophyllous Fern Spores: Are Ecophysiological Features Related to Environmental Conditions?. Frontiers in Plant Science, 2019, 10, 1130.	3.6	9
18	Symbiosis at its limits: ecophysiological consequences of lichenization in the genus Prasiola in Antarctica. Annals of Botany, 2019, 124, 1211-1226.	2.9	13

#	Article	IF	Citations
19	Evolution, biosynthesis and protective roles of oligogalactolipids: Key molecules for terrestrial photosynthesis?. Environmental and Experimental Botany, 2019, 164, 135-148.	4.2	7
20	Plant pigment cycles in the high-Arctic Spitsbergen. Polar Biology, 2019, 42, 675-684.	1.2	8
21	Non-invasive diagnosis of viability in seeds and lichens by infrared thermography under controlled environmental conditions. Plant Methods, 2019, 15, 147.	4.3	0
22	Rapid colour changes inEuglena sanguinea(Euglenophyceae) caused by internal lipid globule migration. European Journal of Phycology, 2019, 54, 91-101.	2.0	18
23	Unraveling metabolic mechanisms behind chloroplast desiccation tolerance: Chlorophyllous fern spore as a new promising unicellular model. Plant Science, 2019, 281, 251-260.	3.6	9
24	A field portable method for the semiâ€quantitative estimation of dehydration tolerance of photosynthetic tissues across distantly related land plants. Physiologia Plantarum, 2019, 167, 540-555.	5.2	18
25	When the sun never sets: daily changes in pigment composition in three subarctic woody plants during the summer solstice. Trees - Structure and Function, 2018, 32, 615-630.	1.9	12
26	First evidence of freezing tolerance in a resurrection plant: insights into molecular mobility and zeaxanthin synthesis in the dark. Physiologia Plantarum, 2018, 163, 472-489.	5.2	34
27	On the recalcitrant use of Arnon's method for chlorophyll determination. New Phytologist, 2018, 217, 474-476.	7.3	15
28	Desiccation Tolerance in Ferns: From theÂUnicellular Spore to theÂMulti-tissular Sporophyte. , 2018, , 401-426.		11
29	Shared mechanisms of photoprotection in photosynthetic organisms tolerant to desiccation or to low temperature. Environmental and Experimental Botany, 2018, 154, 66-79.	4.2	44
30	Can Parietin Transfer Energy Radiatively to Photosynthetic Pigments?. Molecules, 2018, 23, 1741.	3.8	5
31	Plant Photosynthetic Pigments: Methods and Tricks for Correct Quantification and Identification. , 2018, , 29-50.		8
32	Emissions of carotenoid cleavage products upon heat shock and mechanical wounding from a foliose lichen. Environmental and Experimental Botany, 2017, 133, 87-97.	4.2	32
33	Endogenous circadian rhythms in pigment composition induce changes in photochemical efficiency in plant canopies. Plant, Cell and Environment, 2017, 40, 1153-1162.	5.7	26
34	Diversity of winter photoinhibitory responses: a case study in coâ€occurring lichens, mosses, herbs and woody plants from subalpine environments. Physiologia Plantarum, 2017, 160, 282-296.	5.2	31
35	Near-infrared reflectance spectroscopy allows rapid and simultaneous evaluation of chloroplast pigments and antioxidants, carbon isotope discrimination and nitrogen content in Populus spp. leaves. Forest Ecology and Management, 2017, 399, 227-234.	3.2	11
36	Photoprotective Mechanisms in the Genus Quercus in Response to Winter Cold and Summer Drought. Tree Physiology, 2017, , 361-391.	2.5	6

#	Article	IF	Citations
37	Photoprotective Strategies of Mediterranean Plants in Relation to Morphological Traits and Natural Environmental Pressure: A Meta-Analytical Approach. Frontiers in Plant Science, 2017, 8, 1051.	3.6	42
38	Seed Carotenoid and Tocochromanol Composition of Wild Fabaceae Species Is Shaped by Phylogeny and Ecological Factors. Frontiers in Plant Science, 2017, 8, 1428.	3.6	27
39	Leaf functional plasticity decreases the water consumption without further consequences for carbon uptake inQuercus cocciferaL. under Mediterranean conditions. Tree Physiology, 2016, 36, 356-367.	3.1	27
40	Photosynthetic Strategies of Desiccation-Tolerant Organisms. Books in Soils, Plants, and the Environment, 2016, , 663-681.	0.1	19
41	Ecophysiological roles of abaxial anthocyanins in a perennial understorey herb from temperate deciduous forests. AoB PLANTS, 2015, 7, plv042.	2.3	14
42	Activation of photoprotective winter photoinhibition in plants from different environments: a literature compilation and metaâ€analysis. Physiologia Plantarum, 2015, 155, 414-423.	5.2	54
43	Internal and external factors affecting photosynthetic pigment composition in plants: a metaâ€analytical approach. New Phytologist, 2015, 206, 268-280.	7.3	202
44	Opening Pandora's box: cause and impact of errors on plant pigment studies. Frontiers in Plant Science, 2015, 6, 148.	3.6	12
45	Autofluorescence: Biological functions and technical applications. Plant Science, 2015, 236, 136-145.	3.6	106
46	Does age matter under winter photoinhibitory conditions? A case study in stems and leaves of European mistletoe (Viscum album). Functional Plant Biology, 2015, 42, 175.	2.1	6
47	Genomeâ€wide association mapping and biochemical markers reveal that seed ageing and longevity are intricately affected by genetic background and developmental and environmental conditions in barley. Plant, Cell and Environment, 2015, 38, 1011-1022.	5.7	95
48	Tocochromanols in wood: a potential new tool for dendrometabolomics. Tree Physiology, 2014, 34, 1411-1418.	3.1	2
49	Side-effects of domestication: cultivated legume seeds contain similar tocopherols and fatty acids but less carotenoids than their wild counterparts. BMC Plant Biology, 2014, 14, 1599.	3.6	68
50	Does plant colour matter? Wax accumulation as an indicator of decline in Juniperus thurifera. Tree Physiology, 2014, 34, 267-274.	3.1	39
51	Gas-exchange, photo- and antioxidant protection, and metal accumulation in I-214 and Eridano Populus sp. clones subjected to elevated zinc concentrations. Environmental and Experimental Botany, 2014, 107, 144-153.	4.2	24
52	Salt crystal deposition as a reversible mechanism to enhance photoprotection in black mangrove. Trees - Structure and Function, 2013, 27, 229-237.	1.9	17
53	Effect of environmental stress factors on ecophysiological traits and susceptibility to pathogens of five Populus clones throughout the growing season. Tree Physiology, 2013, 33, 618-627.	3.1	16
54	Evidence for the absence of enzymatic reactions in the glassy state. A case study of xanthophyll cycle pigments in the desiccation-tolerant moss Syntrichia ruralis. Journal of Experimental Botany, 2013, 64, 3033-3043.	4.8	86

#	Article	IF	Citations
55	Physiology of the seasonal relationship between the photochemical reflectance index and photosynthetic light use efficiency. Oecologia, 2012, 170, 313-323.	2.0	119
56	Thermal energy dissipation and xanthophyll cycles beyond the Arabidopsis model. Photosynthesis Research, 2012, 113, 89-103.	2.9	97
57	Photoprotection mechanisms in Quercus ilex under contrasting climatic conditions. Flora: Morphology, Distribution, Functional Ecology of Plants, 2012, 207, 557-564.	1.2	38
58	Do fern gametophytes have the capacity for irradiance acclimation?. Biologia Plantarum, 2012, 56, 351-356.	1.9	6
59	Dehydration-mediated activation of the xanthophyll cycle in darkness: is it related to desiccation tolerance?. Planta, 2011, 234, 579-588.	3.2	42
60	Activation of violaxanthin cycle in darkness is a common response to different abiotic stresses: a case study in Pelvetia canaliculata. BMC Plant Biology, 2011, 11, 181.	3.6	44
61	Unravelling the roles of desiccation-induced xanthophyll cycle activity in darkness: a case study in Lobaria pulmonaria. Planta, 2010, 231, 1335-1342.	3.2	53
62	Ageing and irradiance enhance vitamin E content in green edible tissues from crop plants. Journal of the Science of Food and Agriculture, 2010, 90, n/a-n/a.	3.5	22
63	Operation and regulation of the lutein epoxide cycle in seedlings of Ocotea foetens. Functional Plant Biology, 2010, 37, 859.	2.1	23
64	Carotenoid composition in Rhodophyta: insights into xanthophyll regulation inCorallina elongata. European Journal of Phycology, 2009, 44, 221-230.	2.0	48
65	Distribution and evolutionary trends of photoprotective isoprenoids (xanthophylls and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 3	5.2	56
66	Dark induction of the photoprotective xanthophyll cycle in response to dehydration. Journal of Plant Physiology, 2009, 166, 1734-1744.	3.5	40
67	Photoprotective responses of Mediterranean and Atlantic trees to the extreme heat-wave of summer 2003 in Southwestern Europe. Trees - Structure and Function, 2008, 22, 385-392.	1.9	55
68	Photoprotective implications of leaf variegation in E. dens-canis L. and P. officinalis L.. Journal of Plant Physiology, 2008, 165, 1255-1263.	3.5	62