

# Beariz Fernandez-Marin

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,207  
citations

249298

26  
h-index

274796

44  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2838  
citing authors

#	ARTICLE	IF	CITATIONS
1	More than just lipid balls: quantitative analysis of plastoglobule attributes and their stress-related responses. <i>Planta</i> , 2022, 255, 62.	1.6	12
2	When time is not of the essence: constraints to the carbon balance of bryophytes. <i>Journal of Experimental Botany</i> , 2022, , .	2.4	6
3	How dry is dry? Molecular mobility in relation to thallus water content in a lichen. <i>Journal of Experimental Botany</i> , 2021, 72, 1576-1588.	2.4	24
4	Unexpected Vulnerability to High Temperature in the Mediterranean Alpine Shrub <i>Erysimum scoparium</i> (Brouss. ex Willd.) Wettst. <i>Plants</i> , 2021, 10, 379.	1.6	3
5	Combined dynamics of the 500â€“600Ånm leaf absorption and chlorophyll fluorescence changes in vivo: Evidence for the multifunctional energy quenching role of xanthophylls. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148351.	0.5	13
6	Alpine forbs rely on different photoprotective strategies during spring snowmelt. <i>Physiologia Plantarum</i> , 2021, 172, 1506-1517.	2.6	9
7	Shedding light on the dark side of xanthophyll cycles. <i>New Phytologist</i> , 2021, 230, 1336-1344.	3.5	37
8	Frozen in the dark: interplay of night-time activity of xanthophyll cycle, xylem attributes, and desiccation tolerance in fern resistance to winter. <i>Journal of Experimental Botany</i> , 2021, 72, 3168-3184.	2.4	10
9	Coexistent Heteroblastic Needles of Adult <i>Pinus canariensis</i> C.Sm. ex DC. in Buch Trees Differ Structurally and Physiologically. <i>Forests</i> , 2021, 12, 341.	0.9	5
10	Differences in biochemical, gas exchange and hydraulic response to water stress in desiccation tolerant and sensitive fronds of the fern <i>Anemia cafferorum</i> . <i>New Phytologist</i> , 2021, 231, 1415-1430.	3.5	15
11	Chlorophyll a fluorescence illuminates a path connecting plant molecular biology to Earth-system science. <i>Nature Plants</i> , 2021, 7, 998-1009.	4.7	88
12	Photosynthesis on the edge: photoinhibition, desiccation and freezing tolerance of Antarctic bryophytes. <i>Photosynthesis Research</i> , 2020, 149, 135-153.	1.6	21
13	Born to revive: molecular and physiological mechanisms of double tolerance in a paleotropical and resurrection plant. <i>New Phytologist</i> , 2020, 226, 741-759.	3.5	34
14	Ecophysiological changes and spore formation: two strategies in response to lowâ€“temperature and highâ€“light stress in <i>Klebsormidium</i> cf. <i>flaccidum</i> (Klebsormidiophyceae.) <i>Tj ETQqO O O rgBT /Overlock.00 Tf 50&amp;217 Td (St</i>		
15	Summit evergreen shrubs living at a semiâ€“arid treeline: photoprotection systems activation in an open vs an understory site. <i>Physiologia Plantarum</i> , 2020, 169, 228-243.	2.6	2
16	How do vascular plants perform photosynthesis in extreme environments? An integrative ecophysiological and biochemical story. <i>Plant Journal</i> , 2020, 101, 979-1000.	2.8	42
17	Desiccation Tolerance in Chlorophyllous Fern Spores: Are Ecophysiological Features Related to Environmental Conditions?. <i>Frontiers in Plant Science</i> , 2019, 10, 1130.	1.7	9
18	Symbiosis at its limits: ecophysiological consequences of lichenization in the genus <i>Prasiola</i> in Antarctica. <i>Annals of Botany</i> , 2019, 124, 1211-1226.	1.4	13

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19	Evolution, biosynthesis and protective roles of oligogalactolipids: Key molecules for terrestrial photosynthesis?. <i>Environmental and Experimental Botany</i> , 2019, 164, 135-148.	2.0	7
20	Plant pigment cycles in the high-Arctic Spitsbergen. <i>Polar Biology</i> , 2019, 42, 675-684.	0.5	8
21	Non-invasive diagnosis of viability in seeds and lichens by infrared thermography under controlled environmental conditions. <i>Plant Methods</i> , 2019, 15, 147.	1.9	0
22	Rapid colour changes in <i>Euglena sanguinea</i> (Euglenophyceae) caused by internal lipid globule migration. <i>European Journal of Phycology</i> , 2019, 54, 91-101.	0.9	18
23	Unraveling metabolic mechanisms behind chloroplast desiccation tolerance: Chlorophyllous fern spore as a new promising unicellular model. <i>Plant Science</i> , 2019, 281, 251-260.	1.7	9
24	A field portable method for the semi-quantitative estimation of dehydration tolerance of photosynthetic tissues across distantly related land plants. <i>Physiologia Plantarum</i> , 2019, 167, 540-555.	2.6	18
25	When the sun never sets: daily changes in pigment composition in three subarctic woody plants during the summer solstice. <i>Trees - Structure and Function</i> , 2018, 32, 615-630.	0.9	12
26	First evidence of freezing tolerance in a resurrection plant: insights into molecular mobility and zeaxanthin synthesis in the dark. <i>Physiologia Plantarum</i> , 2018, 163, 472-489.	2.6	34
27	On the recalcitrant use of Arnon's method for chlorophyll determination. <i>New Phytologist</i> , 2018, 217, 474-476.	3.5	15
28	Desiccation Tolerance in Ferns: From the Unicellular Spore to the Multi-tissular Sporophyte. , 2018, , 401-426.		11
29	Shared mechanisms of photoprotection in photosynthetic organisms tolerant to desiccation or to low temperature. <i>Environmental and Experimental Botany</i> , 2018, 154, 66-79.	2.0	44
30	Can Parietin Transfer Energy Radiatively to Photosynthetic Pigments?. <i>Molecules</i> , 2018, 23, 1741.	1.7	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. <i>Environmental and Experimental Botany</i> , 2017, 133, 87-97.	2.0	32
33	Endogenous circadian rhythms in pigment composition induce changes in photochemical efficiency in plant canopies. <i>Plant, Cell and Environment</i> , 2017, 40, 1153-1162.	2.8	26
34	Diversity of winter photoinhibitory responses: a case study in co-occurring lichens, mosses, herbs and woody plants from subalpine environments. <i>Physiologia Plantarum</i> , 2017, 160, 282-296.	2.6	31
35	Near-infrared reflectance spectroscopy allows rapid and simultaneous evaluation of chloroplast pigments and antioxidants, carbon isotope discrimination and nitrogen content in <i>Populus</i> spp. leaves. <i>Forest Ecology and Management</i> , 2017, 399, 227-234.	1.4	11
36	Photoprotective Mechanisms in the Genus <i>Quercus</i> in Response to Winter Cold and Summer Drought. <i>Tree Physiology</i> , 2017, , 361-391.	0.9	6

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37	Photoprotective Strategies of Mediterranean Plants in Relation to Morphological Traits and Natural Environmental Pressure: A Meta-Analytical Approach. <i>Frontiers in Plant Science</i> , 2017, 8, 1051.	1.7	42
38	Seed Carotenoid and Tocochromanol Composition of Wild Fabaceae Species Is Shaped by Phylogeny and Ecological Factors. <i>Frontiers in Plant Science</i> , 2017, 8, 1428.	1.7	27
39	Leaf functional plasticity decreases the water consumption without further consequences for carbon uptake in <i>Quercus coccifera</i> L. under Mediterranean conditions. <i>Tree Physiology</i> , 2016, 36, 356-367.	1.4	27
40	Photosynthetic Strategies of Desiccation-Tolerant Organisms. <i>Books in Soils, Plants, and the Environment</i> , 2016, , 663-681.	0.1	19
41	Ecophysiological roles of abaxial anthocyanins in a perennial understorey herb from temperate deciduous forests. <i>AoB PLANTS</i> , 2015, 7, plv042.	1.2	14
42	Activation of photoprotective winter photoinhibition in plants from different environments: a literature compilation and meta-analysis. <i>Physiologia Plantarum</i> , 2015, 155, 414-423.	2.6	54
43	Internal and external factors affecting photosynthetic pigment composition in plants: a meta-analytical approach. <i>New Phytologist</i> , 2015, 206, 268-280.	3.5	202
44	Opening Pandora's box: cause and impact of errors on plant pigment studies. <i>Frontiers in Plant Science</i> , 2015, 6, 148.	1.7	12
45	Autofluorescence: Biological functions and technical applications. <i>Plant Science</i> , 2015, 236, 136-145.	1.7	106
46	Does age matter under winter photoinhibitory conditions? A case study in stems and leaves of European mistletoe ( <i>Viscum album</i> ). <i>Functional Plant Biology</i> , 2015, 42, 175.	1.1	6
47	Genome-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. <i>Plant, Cell and Environment</i> , 2015, 38, 1011-1022.	2.8	95
48	Tocochromanols in wood: a potential new tool for dendrometabolomics. <i>Tree Physiology</i> , 2014, 34, 1411-1418.	1.4	2
49	Side-effects of domestication: cultivated legume seeds contain similar tocopherols and fatty acids but less carotenoids than their wild counterparts. <i>BMC Plant Biology</i> , 2014, 14, 1599.	1.6	68
50	Does plant colour matter? Wax accumulation as an indicator of decline in <i>Juniperus thurifera</i> . <i>Tree Physiology</i> , 2014, 34, 267-274.	1.4	39
51	Gas-exchange, photo- and antioxidant protection, and metal accumulation in I-214 and Eridano <i>Populus</i> sp. clones subjected to elevated zinc concentrations. <i>Environmental and Experimental Botany</i> , 2014, 107, 144-153.	2.0	24
52	Salt crystal deposition as a reversible mechanism to enhance photoprotection in black mangrove. <i>Trees - Structure and Function</i> , 2013, 27, 229-237.	0.9	17
53	Effect of environmental stress factors on ecophysiological traits and susceptibility to pathogens of five <i>Populus</i> clones throughout the growing season. <i>Tree Physiology</i> , 2013, 33, 618-627.	1.4	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 <i>Syntrichia ruralis</i> . <i>Journal of Experimental Botany</i> , 2013, 64, 3033-3043.	2.4	86

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55	Physiology of the seasonal relationship between the photochemical reflectance index and photosynthetic light use efficiency. <i>Oecologia</i> , 2012, 170, 313-323.	0.9	119
56	Thermal energy dissipation and xanthophyll cycles beyond the Arabidopsis model. <i>Photosynthesis Research</i> , 2012, 113, 89-103.	1.6	97
57	Photoprotection mechanisms in <i>Quercus ilex</i> under contrasting climatic conditions. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2012, 207, 557-564.	0.6	38
58	Do fern gametophytes have the capacity for irradiance acclimation?. <i>Biologia Plantarum</i> , 2012, 56, 351-356.	1.9	6
59	Dehydration-mediated activation of the xanthophyll cycle in darkness: is it related to desiccation tolerance?. <i>Planta</i> , 2011, 234, 579-588.	1.6	42
60	Activation of violaxanthin cycle in darkness is a common response to different abiotic stresses: a case study in <i>Pelvetia canaliculata</i> . <i>BMC Plant Biology</i> , 2011, 11, 181.	1.6	44
61	Unravelling the roles of desiccation-induced xanthophyll cycle activity in darkness: a case study in <i>Lobaria pulmonaria</i> . <i>Planta</i> , 2010, 231, 1335-1342.	1.6	53
62	Ageing and irradiance enhance vitamin E content in green edible tissues from crop plants. <i>Journal of the Science of Food and Agriculture</i> , 2010, 90, n/a-n/a.	1.7	22
63	Operation and regulation of the lutein epoxide cycle in seedlings of <i>Ocotea foetens</i> . <i>Functional Plant Biology</i> , 2010, 37, 859.	1.1	23
64	Carotenoid composition in Rhodophyta: insights into xanthophyll regulation in <i>Corallina elongata</i> . <i>European Journal of Phycology</i> , 2009, 44, 221-230.	0.9	48
65	Distribution and evolutionary trends of photoprotective isoprenoids (xanthophylls and) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 34</i>	2.6	56
66	Dark induction of the photoprotective xanthophyll cycle in response to dehydration. <i>Journal of Plant Physiology</i> , 2009, 166, 1734-1744.	1.6	40
67	Photoprotective responses of Mediterranean and Atlantic trees to the extreme heat-wave of summer 2003 in Southwestern Europe. <i>Trees - Structure and Function</i> , 2008, 22, 385-392.	0.9	55
68	Photoprotective implications of leaf variegation in <i>E. dens-canis</i> L. and <i>P. officinalis</i> L.. <i>Journal of Plant Physiology</i> , 2008, 165, 1255-1263.	1.6	62