Daniel Ballesteros

List of Publications by Year
in descending order

34 papers	921 citations	643344 15 h-index	536525 29 g-index
35 all docs	35 docs citations	35 times ranked	824 citing authors

#	Article	IF	Citations
1	Does oxygen affect ageing mechanisms of <i>Pinus densiflora</i> seeds? A matter of cytoplasmic physical state. Journal of Experimental Botany, 2022, 73, 2631-2649.	2.4	18
2	Impact of drying and cooling rate on the survival of the desiccation-sensitive wheat pollen. Plant Cell Reports, 2022, 41, 447-461.	2.8	7
3	Bryophyte Spores Tolerate High Desiccation Levels and Exposure to Cryogenic Temperatures but Contain Storage Lipids and Chlorophyll: Understanding the Essential Traits Needed for the Creation of Bryophyte Spore Banks. Plants, 2022, 11, 1262.	1.6	2
4	Cryopreservation of Seeds and Seed Embryos in Orthodox-, Intermediate-, and Recalcitrant-Seeded Species. Methods in Molecular Biology, 2021, 2180, 663-682.	0.4	12
5	Cryopreservation of Fern Spores and Pollen. Methods in Molecular Biology, 2021, 2180, 623-637.	0.4	6
6	Plant Diversity Conservation Challenges and Prospectsâ€"The Perspective of Botanic Gardens and the Millennium Seed Bank. Plants, 2021, 10, 2371.	1.6	26
7	Cryobiotechnologies: Tools for expanding long-term ex situ conservation to all plant species. Biological Conservation, 2020, 250, 108736.	1.9	62
8	Dry architecture: towards the understanding of the variation of longevity in desiccation-tolerant germplasm. Seed Science Research, 2020, 30, 142-155.	0.8	64
9	The Cryobiotechnology of Oaks: An Integration of Approaches for the Long-Term Ex Situ Conservation of Quercus Species. Forests, 2020, 11, 1281.	0.9	11
10	Desiccation Tolerance in Chlorophyllous Fern Spores: Are Ecophysiological Features Related to Environmental Conditions?. Frontiers in Plant Science, 2019, 10, 1130.	1.7	9
11	Solid-State Biology and Seed Longevity: A Mechanical Analysis of Glasses in Pea and Soybean Embryonic Axes. Frontiers in Plant Science, 2019, 10, 920.	1.7	26
12	Assessing Extreme Seed Longevity: The Value of Historic Botanical Collections to Modern Research. Frontiers in Plant Science, 2019, 10, 1181.	1.7	6
13	Survival and growth of embryo axes of temperate trees after two decades of cryo-storage. Cryobiology, 2019, 88, 110-113.	0.3	11
14	Longevity of Preserved Germplasm: The Temperature Dependency of Aging Reactions in Glassy Matrices of Dried Fern Spores. Plant and Cell Physiology, 2019, 60, 376-392.	1.5	26
15	Photo-oxidation modulates green fern spore longevity during dry storage. Plant Cell, Tissue and Organ Culture, 2018, 133, 165-175.	1.2	7
16	Fern Conservation: Spore, Gametophyte, and Sporophyte Ex Situ Storage, In Vitro Culture, and Cryopreservation. , 2018, , 227-249.		13
17	Desiccation Tolerance in Ferns: From theÂUnicellular Spore to theÂMulti-tissular Sporophyte. , 2018, , 401-426.		11
18	Evaluation of short-lived seedsâ€™ cryopreservation as alternative to conventional seed banking.. Cryobiology, 2018, 85, 140-141.	0.3	8

#	Article	IF	Citations
19	Desiccation tolerance and the hydration window for the cryopreservation of woody speciesâ€™ pollen. Cryobiology, 2018, 85, 139.	0.3	4
20	Cryobiotechnological approaches for the preservation of oak (Quercus Sp) embryonic axes.. Cryobiology, 2018, 85, 140.	0.3	1
21	Contribution of embryo size and age to the successful cryopreservation of aesculus species.. Cryobiology, 2018, 85, 140.	0.3	3
22	Assessing the limits of liquid nitrogen storage: fern spores as unicellular model to understant and improve longevity at cryogenic conditions.. Cryobiology, 2018, 85, 160.	0.3	3
23	Variation of desiccation tolerance and longevity in fern spores. Journal of Plant Physiology, 2017, 211, 53-62.	1.6	25
24	Survival and genetic stability of shoot tips of Hedeoma todsenii R.S.Irving after long-term cryostorage. In Vitro Cellular and Developmental Biology - Plant, 2017, 53, 328-338.	0.9	15
25	Cryobiotechnology of tropical seeds â€“ scale, scope and hope. Acta Horticulturae, 2017, , 37-48.	0.1	10
26	Plant species with extremely small populations (PSESP) in China: AÂseed and spore biology perspective. Plant Diversity, 2016, 38, 209-220.	1.8	42
27	Uneven drying of zygotic embryos and embryonic axes of recalcitrant seeds: Challenges and considerations for cryopreservation. Cryobiology, 2014, 69, 100-109.	0.3	24
28	Effects of temperature and desiccation on ex situ conservation of nongreen fern spores. American Journal of Botany, 2012, 99, 721-729.	0.8	32
29	Detailed characterization of mechanical properties and molecular mobility within dry seed glasses: relevance to the physiology of dry biological systems. Plant Journal, 2011, 68, 607-619.	2.8	92
30	Conservation of Fern Spores. , 2011, , 165-172.		8
31	Inhibition of mitochondrial function by efavirenz increases lipid content in hepatic cells. Hepatology, 2010, 52, 115-125.	3.6	128
32	Structural mechanics of seed deterioration: Standing the test of time. Plant Science, 2010, 179, 565-573.	1.7	140
33	Water properties in fern spores: sorption characteristics relating to water affinity, glassy states, and storage stability. Journal of Experimental Botany, 2007, 58, 1185-1196.	2.4	35
34	Calorimetric properties of water and triacylglycerols in fern spores relating to storage at cryogenic temperatures. Cryobiology, 2007, 55, 1-9.	0.3	33