

Le u00f3n Bravo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91 papers	1,962 citations	25 h-index	40 g-index
97 ext. papers	2,330 ext. citations	3.8 avg, IF	4.49 L-index

#	Paper	IF	Citations
91	Salicylic Acid Improves Antioxidant Defense System and Photosynthetic Performance in Plants Subjected to Moderate Drought Stress.. <i>Plants</i> , 2022 , 11,	4.5	3
90	A high-throughput method for measuring critical thermal limits of leaves by chlorophyll imaging fluorescence. <i>Functional Plant Biology</i> , 2021 , 48, 634-646	2.7	2
89	Identification and validation of new reference genes for accurate quantitative reverse transcriptase-PCR normalization in the Antarctic plant <i>Colobanthus quitensis</i> under abiotic stress conditions. <i>Polar Biology</i> , 2021 , 44, 389-405	2	2
88	Decomposition of Calcium Oxalate Crystals in under CO Limiting Conditions. <i>Plants</i> , 2020 , 9,	4.5	1
87	Exploratory Study of Fatty Acid Profile in Two Filmy Ferns with Contrasting Desiccation Tolerance Reveal the Production of Very Long Chain Polyunsaturated Omega-3 Fatty Acids. <i>Plants</i> , 2020 , 9,	4.5	2
86	Decoding Gene Networks Modules That Explain the Recovery of Cav. After Extreme Desiccation. <i>Frontiers in Plant Science</i> , 2020 , 11, 574	6.2	3
85	Low-temperature tolerance of the Antarctic species <i>Deschampsia antarctica</i> : A complex metabolic response associated with nutrient remobilization. <i>Plant, Cell and Environment</i> , 2020 , 43, 1376-1393	8.4	11
84	Effect of in vitro cold acclimation of <i>Deschampsia antarctica</i> on the accumulation of proteins with antifreeze activity. <i>Journal of Experimental Botany</i> , 2020 , 71, 2933-2942	7	1
83	How do vascular plants perform photosynthesis in extreme environments? An integrative ecophysiological and biochemical story. <i>Plant Journal</i> , 2020 , 101, 979-1000	6.9	15
82	A comparative gene co-expression analysis using self-organizing maps on two congener filmy ferns identifies specific desiccation tolerance mechanisms associated to their microhabitat preference. <i>BMC Plant Biology</i> , 2020 , 20, 56	5.3	4
81	In silico analysis of metatranscriptomic data from the Antarctic vascular plant <i>Colobanthus quitensis</i> : Responses to a global warming scenario through changes in fungal gene expression levels. <i>Fungal Ecology</i> , 2020 , 43, 100873	4.1	7
80	Cytochrome respiration pathway and sulphur metabolism sustain stress tolerance to low temperature in the Antarctic species <i>Colobanthus quitensis</i> . <i>New Phytologist</i> , 2020 , 225, 754-768	9.8	14
79	Photoprotective strategies against drought are depending on the elevation provenance in <i>Phacelia secunda</i> . <i>Alpine Botany</i> , 2019 , 129, 123-135	2.5	5
78	Contrasting thermal acclimation of leaf dark respiration and photosynthesis of Antarctic vascular plant species exposed to nocturnal warming. <i>Physiologia Plantarum</i> , 2019 , 167, 205-216	4.6	4
77	Effects of temperature and water availability on light energy utilization in photosynthetic processes of <i>Deschampsia antarctica</i> . <i>Physiologia Plantarum</i> , 2019 , 165, 511-523	4.6	8
76	Compatible solutes and metabolites accumulation does not explain partial desiccation tolerance in <i>Hymenoglossum cruentum</i> and <i>Hymenophyllum dentatum</i> (Hymenophyllaceae) two filmy ferns with contrasting vertical distribution. <i>Environmental and Experimental Botany</i> , 2018 , 150, 272-279	5.9	7
75	Draft genome sequences of bacteria isolated from the <i>Deschampsia antarctica</i> phyllosphere. <i>Extremophiles</i> , 2018 , 22, 537-552	3	8

74	In situ warming in the Antarctic: effects on growth and photosynthesis in Antarctic vascular plants. <i>New Phytologist</i> , 2018 , 218, 1406-1418	9.8	23
73	The importance of facilitative interactions on the performance of <i>Colobanthus quitensis</i> in an Antarctic tundra. <i>Journal of Vegetation Science</i> , 2018 , 29, 236-244	3.1	4
72	Changes in photosynthetic rate and stress volatile emissions through desiccation-rehydration cycles in desiccation-tolerant epiphytic filmy ferns (Hymenophyllaceae). <i>Plant, Cell and Environment</i> , 2018 , 41, 1605-1617	8.4	6
71	Nitrogen Supply Affects Photosynthesis and Photoprotective Attributes During Drought-Induced Senescence in Quinoa. <i>Frontiers in Plant Science</i> , 2018 , 9, 994	6.2	13
70	Physiological and ultrastructural characterisation of a desiccation-tolerant filmy fern, <i>Hymenophyllum caudiculatum</i> : Influence of translational regulation and ABA on recovery. <i>Plant Biology</i> , 2018 , 20, 288-295	3.7	8
69	Warmer Temperatures Affect the Freezing Resistance of the Antarctic Vascular Plants. <i>Frontiers in Plant Science</i> , 2018 , 9, 1456	6.2	9
68	Mesophyll conductance to CO ₂ is the most significant limitation to photosynthesis at different temperatures and water availabilities in Antarctic vascular species. <i>Environmental and Experimental Botany</i> , 2018 , 156, 279-287	5.9	16
67	Growing temperature affects seed germination of the antarctic plant <i>Colobanthus quitensis</i> (Kunth) Bartl (Caryophyllaceae). <i>Polar Biology</i> , 2017 , 40, 449-455	2	9
66	Contrasting nitrogen use efficiency of Antarctic vascular plants may explain their population expansion in Antarctica. <i>Polar Biology</i> , 2017 , 40, 1569-1580	2	5
65	Bacterial community structures and ice recrystallization inhibition activity of bacteria isolated from the phyllosphere of the Antarctic vascular plant <i>Deschampsia antarctica</i> . <i>Polar Biology</i> , 2017 , 40, 1319-1331	3.31	17
64	Photosynthetic limitations in two Antarctic vascular plants: importance of leaf anatomical traits and Rubisco kinetic parameters. <i>Journal of Experimental Botany</i> , 2017 , 68, 2871-2883	7	27
63	Two Hymenophyllaceae species from contrasting natural environments exhibit a homoiochlorophyllous strategy in response to desiccation stress. <i>Journal of Plant Physiology</i> , 2016 , 191, 82-94	3.6	17
62	Ecophysiological traits of Antarctic vascular plants: their importance in the responses to climate change. <i>Plant Ecology</i> , 2016 , 217, 343-358	1.7	39
61	Dehydrins presence in xylem parenchyma cells enhances hydraulic conductivity and physiological performance in <i>Nothofagus dombeyi</i> . <i>South African Journal of Botany</i> , 2016 , 102, 240-244	2.9	1
60	Properties and biotechnological applications of ice-binding proteins in bacteria. <i>FEMS Microbiology Letters</i> , 2016 , 363,	2.9	27
59	Salt tolerance traits in <i>Deschampsia antarctica</i> Desv.. <i>Antarctic Science</i> , 2016 , 28, 462-472	1.7	5
58	Photosynthetic responses and photoprotection strategies of <i>Phacelia secunda</i> plants exposed to experimental warming at different elevations in the central Chilean Andes. <i>Alpine Botany</i> , 2015 , 125, 87-99	2.5	10
57	Conductancia hidráulica foliar y vulnerabilidad a la cavitación disminuyen con la altitud en <i>Phacelia secunda</i> J.F. Gmel. (Boraginaceae). <i>Gayana - Botánica</i> , 2015 , 72, 84-93	1.1	1

56	Photosynthetic Light Responses May Explain Vertical Distribution of Hymenophyllaceae Species in a Temperate Rainforest of Southern Chile. <i>PLoS ONE</i> , 2015 , 10, e0145475	3.7	12
55	Influence of in vitro growth conditions on the photosynthesis and survival of <i>Castanea sativa</i> plantlets during ex vitro transfer. <i>Plant Growth Regulation</i> , 2015 , 75, 625-639	3.2	9
54	Effects of forest successional status on microenvironmental conditions, diversity, and distribution of filmy fern species in a temperate rainforest. <i>Plant Species Biology</i> , 2014 , 29, 253-262	1.3	22
53	Expression of a <i>Deschampsia antarctica</i> Desv. polypeptide with lipase activity in a <i>Pichia pastoris</i> vector. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 2359-67	6.3	3
52	Drought effects on water use efficiency, freezing tolerance and survival of <i>Eucalyptus globulus</i> and <i>Eucalyptus globulus</i> thitens cuttings. <i>New Forests</i> , 2013 , 44, 119-134	2.6	24
51	Light energy management in micropropagated plants of <i>Castanea sativa</i> , effects of photoinhibition. <i>Plant Science</i> , 2013 , 201-202, 12-24	5.3	25
50	Effect of auxin on cluster roots induction in <i>Embothrium coccineum</i> J.R. Forst. & G. Forst. in phosphorus deficiency condition. <i>Chilean Journal of Agricultural Research</i> , 2013 , 73, 220-224	1.9	1
49	Photosynthetic and leaf anatomical characteristics of <i>Castanea sativa</i> : a comparison between in vitro and nursery plants. <i>Biologia Plantarum</i> , 2012 , 56, 15-24	2.1	33
48	Increased light intensity during in vitro culture improves water loss control and photosynthetic performance of <i>Castanea sativa</i> grown in ventilated vessels. <i>Scientia Horticulturae</i> , 2012 , 138, 7-16	4.1	42
47	Cold-acclimation limits low temperature induced photoinhibition by promoting a higher photochemical quantum yield and a more effective PSII restoration in darkness in the Antarctic rather than the Andean ecotype of <i>Colobanthus quitensis</i> Kunt Bartl (Caryophyllaceae). <i>BMC Plant Biology</i> , 2012 , 12, 114	5.3	32
46	Respuestas antioxidantes en dos ecotipos de <i>Colobanthus quitensis</i> (Caryophyllaceae) expuestos a alta radiaci3n UV-B y baja temperatura. <i>Revista Chilena De Historia Natural</i> , 2012 , 85, 419-433	1.8	7
45	Leaf seasonal accumulation of a 47-kDa dehydrin and changes in its cryoprotective activity in <i>Nothofagus dombeyi</i> (Mirb.) Blume. <i>Gayana - Botanica</i> , 2012 , 69, 1-8	1.1	2
44	Tree size and light availability increase photochemical instead of non-photochemical capacities of <i>Nothofagus nitida</i> trees growing in an evergreen temperate rain forest. <i>Tree Physiology</i> , 2011 , 31, 1128-41	4.2	15
43	Genotypic variation in morphology and freezing resistance of <i>Eucalyptus globulus</i> seedlings subjected to drought hardening in nursery. <i>Electronic Journal of Biotechnology</i> , 2010 , 13,	3.1	7
42	<i>Deschampsia antarctica</i> Desv. primary photochemistry performs differently in plants grown in the field and laboratory. <i>Polar Biology</i> , 2010 , 33, 477-483	2	7
41	Leaf functional and micro-morphological photoprotective attributes in two ecotypes of <i>Colobanthus quitensis</i> from the Andes and Maritime Antarctic. <i>Polar Biology</i> , 2010 , 33, 885-896	2	18
40	Light energy partitioning in photosystems I and II during development of <i>Nothofagus nitida</i> growing under different light environments in the Chilean evergreen temperate rain forest. <i>Trees - Structure and Function</i> , 2010 , 24, 247-259	2.6	17
39	Differences in light usage among three fern species of genus <i>Blechnum</i> of contrasting ecological breadth in a forest light gradient. <i>Ecological Research</i> , 2010 , 25, 273-281	1.9	12

38	Freezing resistance of high-elevation plant species is not related to their height or growth-form in the Central Chilean Andes. <i>Environmental and Experimental Botany</i> , 2010 , 69, 273-278	5.9	17
37	Photochemical efficiency of PSII and photoprotective pigments in seedlings and adults of two Proteaceae with different shade tolerance from the Chilean temperate rain forest. <i>Revista Chilena De Historia Natural</i> , 2009 , 82,	1.8	7
36	Thermal energy dissipation and its components in two developmental stages of a shade-tolerant species, <i>Nothofagus nitida</i> , and a shade-intolerant species, <i>Nothofagus dombeyi</i> . <i>Tree Physiology</i> , 2009 , 29, 651-62	4.2	7
35	Is survival after ice encasement related with sugar distribution in organs of the Antarctic plants <i>Deschampsia antarctica</i> Desv. (Poaceae) and <i>Colobanthus quitensis</i> (Kunth) Bartl. (Caryophyllaceae)?. <i>Polar Biology</i> , 2009 , 32, 583-591	2	13
34	Freezing resistance varies within the growing season and with elevation in high-Andean species of central Chile. <i>New Phytologist</i> , 2009 , 182, 461-469	9.8	57
33	Changes in morpho-physiological attributes of <i>Eucalyptus globulus</i> plants in response to different drought hardening treatments. <i>Electronic Journal of Biotechnology</i> , 2008 , 11, 0-0	3.1	25
32	Changes during early development in photosynthetic light acclimation capacity explain the shade to sun transition in <i>Nothofagus nitida</i> . <i>Tree Physiology</i> , 2008 , 28, 1561-71	4.2	33
31	Effects of low temperature acclimation on photosynthesis in three Chilean Proteaceae. <i>Revista Chilena De Historia Natural</i> , 2008 , 81,	1.8	4
30	Photosynthetic responses to temperature and light of Antarctic and Andean populations of <i>Colobanthus quitensis</i> (Caryophyllaceae). <i>Revista Chilena De Historia Natural</i> , 2007 , 80,	1.8	11
29	Is electron transport to oxygen an important mechanism in photoprotection? Contrasting responses from Antarctic vascular plants. <i>Physiologia Plantarum</i> , 2007 , 130, 185-194	4.6	29
28	Frost resistance mechanisms in quinoa (<i>Chenopodium quinoa</i> Willd.). <i>European Journal of Agronomy</i> , 2007 , 26, 471-475	5	91
27	Effect of cold acclimation on the photosynthetic performance of two ecotypes of <i>Colobanthus quitensis</i> (Kunth) Bartl. <i>Journal of Experimental Botany</i> , 2007 , 58, 3581-90	7	42
26	<i>Arabidopsis thaliana</i> avoids freezing by supercooling. <i>Journal of Experimental Botany</i> , 2006 , 57, 3687-96	7	37
25	Seasonal changes in the photosynthetic performance of two evergreen <i>Nothofagus</i> species in south central Chile. <i>Revista Chilena De Historia Natural</i> , 2006 , 79, 489	1.8	14
24	Robustness of activity of Calvin cycle enzymes after high light and low temperature conditions in Antarctic vascular plants. <i>Polar Biology</i> , 2006 , 29, 909-916	2	13
23	Low temperature regulates sucrose-phosphate synthase activity in <i>Colobanthus quitensis</i> (Kunth) Bartl. by decreasing its sensitivity to Pi and increased activation by glucose-6-phosphate. <i>Polar Biology</i> , 2006 , 29, 1011-1017	2	13
22	Photosynthetic performance of <i>Colobanthus quitensis</i> (Kunth) Bartl. (Caryophyllaceae) in a high-elevation site of the Andes of central Chile. <i>Revista Chilena De Historia Natural</i> , 2006 , 79,	1.8	13
21	Low temperature responses of <i>Nothofagus dombeyi</i> and <i>Nothofagus nitida</i> , two evergreen species from south central Chile. <i>Tree Physiology</i> , 2005 , 25, 1389-98	4.2	39

20	Characterization of antifreeze activity in Antarctic plants. <i>Journal of Experimental Botany</i> , 2005 , 56, 1189-96	7.2	72
19	Plant responses of quinoa (<i>Chenopodium quinoa</i> Willd.) to frost at various phenological stages. <i>European Journal of Agronomy</i> , 2005 , 22, 131-139	5	118
18	Differential accumulation of dehydrin-like proteins by abiotic stresses in <i>Deschampsia antarctica</i> Desv.. <i>Polar Biology</i> , 2005 , 28, 506-513	2	16
17	Light regulation of sucrose-phosphate synthase activity in the freezing-tolerant grass <i>Deschampsia antarctica</i> . <i>Photosynthesis Research</i> , 2005 , 83, 75-86	3.7	15
16	Ecotypic Differentiation in Morphology and Cold Resistance in Populations of <i>Colobanthus quitensis</i> (Caryophyllaceae) from the Andes of Central Chile and the Maritime Antarctic. <i>Arctic, Antarctic, and Alpine Research</i> , 2004 , 36, 484-489	1.8	38
15	Calcium interacts with antifreeze proteins and chitinase from cold-acclimated winter rye. <i>Plant Physiology</i> , 2004 , 135, 364-76	6.6	39
14	Responses of <i>Colobanthus quitensis</i> (Kunth) Bartl. to high light and low temperature. <i>Polar Biology</i> , 2004 , 27, 183-189	2	25
13	The role of photochemical quenching and antioxidants in photoprotection of <i>Deschampsia antarctica</i> . <i>Functional Plant Biology</i> , 2004 , 31, 731-741	2.7	37
12	Accumulation of dehydrin transcripts and proteins in response to abiotic stresses in <i>Deschampsia antarctica</i> . <i>Antarctic Science</i> , 2004 , 16, 175-184	1.7	12
11	Sugars and enzyme activity in the grass <i>Deschampsia antarctica</i> . <i>Antarctic Science</i> , 2003 , 15, 483-491	1.7	16
10	Identification and characterization of three novel cold acclimation-responsive genes from the extremophile hair grass <i>Deschampsia antarctica</i> Desv. <i>Extremophiles</i> , 2003 , 7, 459-69	3	22
9	Cryoprotective activity of a cold-induced dehydrin purified from barley. <i>Physiologia Plantarum</i> , 2003 , 118, 262-269	4.6	93
8	Ecophysiology of Antarctic vascular plants. <i>Physiologia Plantarum</i> , 2002 , 115, 479-486	4.6	117
7	Differential gene expression in proteoid root clusters of white lupin (<i>Lupinus albus</i>). <i>Physiologia Plantarum</i> , 2002 , 116, 28-36	4.6	8
6	Cold resistance in Antarctic angiosperms. <i>Physiologia Plantarum</i> , 2001 , 111, 55-65	4.6	105
5	Characterization of an 80-kDa dehydrin-like protein in barley responsive to cold acclimation. <i>Physiologia Plantarum</i> , 1999 , 106, 177-183	4.6	48
4	The role of ABA in freezing tolerance and cold acclimation in barley. <i>Physiologia Plantarum</i> , 1998 , 103, 17-23	4.6	71
3	Freezing tolerance of barley seedlings infested by aphids. <i>Journal of Plant Physiology</i> , 1997 , 150, 611-614	3.6	3

2	Physiological and molecular responses of <i>Prosopis chilensis</i> under field and simulation conditions. <i>Phytochemistry</i> , 1995 , 40, 1375-1382	4	11
1	Cold hardiness in Antarctic vascular plants.198-213		9