Le u00f3n Bravo

List of Publications by Citations

91	1,962	25	40
papers	citations	h-index	g-index

97	2,330	3.8	4.49
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
91	Plant responses of quinoa (Chenopodium quinoa Willd.) to frost at various phenological stages. *European Journal of Agronomy*, **2005**, 22, 131-139	5	118
90	Ecophysiology of Antarctic vascular plants. *Physiologia Plantarum*, **2002**, 115, 479-486	4.6	117
89	Cold resistance in Antarctic angiosperms. *Physiologia Plantarum*, **2001**, 111, 55-65	4.6	105
88	Cryoprotective activity of a cold-induced dehydrin purified from barley. *Physiologia Plantarum*, **2003**, 118, 262-269	4.6	93
87	Frost resistance mechanisms in quinoa (Chenopodium quinoa Willd.). *European Journal of Agronomy* , **2007**, 26, 471-475	5	91
86	Characterization of antifreeze activity in Antarctic plants. *Journal of Experimental Botany*, **2005**, 56, 1189-96	7	72
85	The role of ABA in freezing tolerance and cold acclimation in barley. *Physiologia Plantarum*, **1998**, 103, 17-23	4.6	71
84	Freezing resistance varies within the growing season and with elevation in high-Andean species of central Chile. *New Phytologist*, **2009**, 182, 461-469	9.8	57
83	Characterization of an 80-kDa dehydrin-like protein in barley responsive to cold acclimation. *Physiologia Plantarum*, **1999**, 106, 177-183	4.6	48
82	Increased light intensity during in vitro culture improves water loss control and photosynthetic performance of Castanea sativa grown in ventilated vessels. *Scientia Horticulturae*, **2012**, 138, 7-16	4.1	42
81	Effect of cold acclimation on the photosynthetic performance of two ecotypes of Colobanthus quitensis (Kunth) Bartl. *Journal of Experimental Botany*, **2007**, 58, 3581-90	7	42
80	Ecophysiological traits of Antarctic vascular plants: their importance in the responses to climate change. *Plant Ecology*, **2016**, 217, 343-358	1.7	39
79	Low temperature responses of Nothofagus dombeyi and Nothofagus nitida, two evergreen species from south central Chile. *Tree Physiology*, **2005**, 25, 1389-98	4.2	39
78	Calcium interacts with antifreeze proteins and chitinase from cold-acclimated winter rye. *Plant Physiology*, **2004**, 135, 364-76	6.6	39
77	Ecotypic Differentiation in Morphology and Cold Resistance in Populations of Colobanthus quitensis (Caryophyllaceae) from the Andes of Central Chile and the Maritime Antarctic. *Arctic, Antarctic, and Alpine Research*, **2004**, 36, 484-489	1.8	38
76	Arabidopsis thaliana avoids freezing by supercooling. *Journal of Experimental Botany*, **2006**, 57, 3687-96	7	37
75	The role of photochemical quenching and antioxidants in photoprotection of Deschampsia antarctica. *Functional Plant Biology*, **2004**, 31, 731-741	2.7	37

74	Photosynthetic and leaf anatomical characteristics of Castanea sativa: a comparison between in vitro and nursery plants. *Biologia Plantarum*, **2012**, 56, 15-24	2.1	33
73	Changes during early development in photosynthetic light acclimation capacity explain the shade to sun transition in Nothofagus nitida. *Tree Physiology*, **2008**, 28, 1561-71	4.2	33
72	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 Colobanthus quitensis Kunt Bartl (Cariophyllaceae). *BMC Plant Biology*, **2012**, 12, 114	5.3	32
71	Is electron transport to oxygen an important mechanism in photoprotection? Contrasting responses from Antarctic vascular plants. *Physiologia Plantarum*, **2007**, 130, 185-194	4.6	29
70	Photosynthetic limitations in two Antarctic vascular plants: importance of leaf anatomical traits and Rubisco kinetic parameters. *Journal of Experimental Botany*, **2017**, 68, 2871-2883	7	27
69	Properties and biotechnological applications of ice-binding proteins in bacteria. *FEMS Microbiology Letters*, **2016**, 363,	2.9	27
68	Light energy management in micropropagated plants of Castanea sativa, effects of photoinhibition. *Plant Science*, **2013**, 201-202, 12-24	5.3	25
67	Changes in morpho-physiological attributes of Eucalyptus globulus plants in response to different drought hardening treatments. *Electronic Journal of Biotechnology*, **2008**, 11, 0-0	3.1	25
66	Responses of Colobanthus quitensis (Kunth) Bartl. to high light and low temperature. *Polar Biology*, **2004**, 27, 183-189	2	25
65	Drought effects on water use efficiency, freezing tolerance and survival of Eucalyptus globulus and Eucalyptus globulus ssp. maidenii cuttings. *New Forests*, **2013**, 44, 119-134	2.6	24
64	In situ warming in the Antarctic: effects on growth and photosynthesis in Antarctic vascular plants. *New Phytologist*, **2018**, 218, 1406-1418	9.8	23
63	Effects of forest successional status on microenvironmental conditions, diversity, and distribution of filmy fern species in a temperate rainforest. *Plant Species Biology*, **2014**, 29, 253-262	1.3	22
62	Identification and characterization of three novel cold acclimation-responsive genes from the extremophile hair grass Deschampsia antarctica Desv. *Extremophiles*, **2003**, 7, 459-69	3	22
61	Leaf functional and micro-morphological photoprotective attributes in two ecotypes of Colobanthus quitensis from the Andes and Maritime Antarctic. *Polar Biology*, **2010**, 33, 885-896	2	18
60	Two Hymenophyllaceae species from contrasting natural environments exhibit a homoiochlorophyllous strategy in response to desiccation stress. *Journal of Plant Physiology*, **2016**, 191, 82-94	3.6	17
59	Bacterial community structures and ice recrystallization inhibition activity of bacteria isolated from the phyllosphere of the Antarctic vascular plant Deschampsia antarctica. *Polar Biology*, **2017**, 40, 1319-1331	2	17
58	Light energy partitioning in photosystems I and II during development of Nothofagus nitida growing under different light environments in the Chilean evergreen temperate rain forest. *Trees - Structure and Function*, **2010**, 24, 247-259	2.6	17
57	Freezing resistance of high-elevation plant species is not related to their height or growth-form in the Central Chilean Andes. *Environmental and Experimental Botany*, **2010**, 69, 273-278	5.9	17

56	Sugars and enzyme activity in the grass Deschampsia antarctica. *Antarctic Science*, **2003**, 15, 483-491	1.7	16
55	Differential accumulation of dehydrin-like proteins by abiotic stresses in Deschampsia antarctica Desv.. *Polar Biology*, **2005**, 28, 506-513	2	16
54	Mesophyll conductance to CO2 is the most significant limitation to photosynthesis at different temperatures and water availabilities in Antarctic vascular species. *Environmental and Experimental Botany*, **2018**, 156, 279-287	5.9	16
53	How do vascular plants perform photosynthesis in extreme environments? An integrative ecophysiological and biochemical story. *Plant Journal*, **2020**, 101, 979-1000	6.9	15
52	Tree size and light availability increase photochemical instead of non-photochemical capacities of Nothofagus nitida trees growing in an evergreen temperate rain forest. *Tree Physiology*, **2011**, 31, 1128-41	4.2	15
51	Light regulation of sucrose-phosphate synthase activity in the freezing-tolerant grass Deschampsia antarctica. *Photosynthesis Research*, **2005**, 83, 75-86	3.7	15
50	Seasonal changes in the photosynthetic performance of two evergreen Nothofagus species in south central Chile. *Revista Chilena De Historia Natural*, **2006**, 79, 489	1.8	14
49	Cytochrome respiration pathway and sulphur metabolism sustain stress tolerance to low temperature in the Antarctic species Colobanthus quitensis. *New Phytologist*, **2020**, 225, 754-768	9.8	14
48	Nitrogen Supply Affects Photosynthesis and Photoprotective Attributes During Drought-Induced Senescence in Quinoa. *Frontiers in Plant Science*, **2018**, 9, 994	6.2	13
47	Is survival after ice encasement related with sugar distribution in organs of the Antarctic plants Deschampsia antarctica Desv. (Poaceae) and Colobanthus quitensis (Kunth) Bartl. (Caryophyllaceae)?. *Polar Biology*, **2009**, 32, 583-591	2	13
46	Robustness of activity of Calvin cycle enzymes after high light and low temperature conditions in Antarctic vascular plants. *Polar Biology*, **2006**, 29, 909-916	2	13
45	Low temperature regulates sucrose-phosphate synthase activity in Colobanthus quitensis (Kunth) Bartl. by decreasing its sensitivity to Pi and increased activation by glucose-6-phosphate. *Polar Biology*, **2006**, 29, 1011-1017	2	13
44	Photosynthetic performance of Colobanthus quitensis (Kunth) Bartl. (Caryophyllaceae) in a high-elevation site of the Andes of central Chile. *Revista Chilena De Historia Natural*, **2006**, 79,	1.8	13
43	Photosynthetic Light Responses May Explain Vertical Distribution of Hymenophyllaceae Species in a Temperate Rainforest of Southern Chile. *PLoS ONE*, **2015**, 10, e0145475	3.7	12
42	Differences in light usage among three fern species of genus Blechnum of contrasting ecological breadth in a forest light gradient. *Ecological Research*, **2010**, 25, 273-281	1.9	12
41	Accumulation of dehydrin transcripts and proteins in response to abiotic stresses in Deschampsia antarctica. *Antarctic Science*, **2004**, 16, 175-184	1.7	12
40	Low-temperature tolerance of the Antarctic species Deschampsia antarctica: A complex metabolic response associated with nutrient remobilization. *Plant, Cell and Environment*, **2020**, 43, 1376-1393	8.4	11
39	Photosynthetic responses to temperature and light of Antarctic and Andean populations of Colobanthus quitensis (Caryophyllaceae). *Revista Chilena De Historia Natural*, **2007**, 80,	1.8	11

38	Physiological and molecular responses of Prosopis chilensis under field and simulation conditions. *Phytochemistry*, **1995**, 40, 1375-1382	4	11
37	Photosynthetic responses and photoprotection strategies of Phacelia secunda plants exposed to experimental warming at different elevations in the central Chilean Andes. *Alpine Botany*, **2015**, 125, 87-99	2.5	10
36	Growing temperature affects seed germination of the antarctic plant Colobanthus quitensis (Kunth) Bartl (Caryophyllaceae). *Polar Biology*, **2017**, 40, 449-455	2	9
35	Influence of in vitro growth conditions on the photosynthesis and survival of Castanea sativa plantlets during ex vitro transfer. *Plant Growth Regulation*, **2015**, 75, 625-639	3.2	9
34	Cold hardiness in Antarctic vascular plants.198-213		9
33	Warmer Temperatures Affect the Freezing Resistance of the Antarctic Vascular Plants. *Frontiers in Plant Science*, **2018**, 9, 1456	6.2	9
32	Draft genome sequences of bacteria isolated from the Deschampsia antarctica phyllosphere. *Extremophiles*, **2018**, 22, 537-552	3	8
31	Differential gene expression in proteoid root clusters of white lupin (Lupinus albus). *Physiologia Plantarum*, **2002**, 116, 28-36	4.6	8
30	Effects of temperature and water availability on light energy utilization in photosynthetic processes of Deschampsia antarctica. *Physiologia Plantarum*, **2019**, 165, 511-523	4.6	8
29	Physiological and ultrastructural characterisation of a desiccation-tolerant filmy fern, Hymenophyllum caudiculatum: Influence of translational regulation and ABA on recovery. *Plant Biology*, **2018**, 20, 288-295	3.7	8
28	Compatible solutes and metabolites accumulation does not explain partial desiccation tolerance in Hymenoglossum cruentum and Hymenophyllum dentatum (Hymenophyllaceae) two filmy ferns with contrasting vertical distribution. *Environmental and Experimental Botany*, **2018**, 150, 272-279	5.9	7
27	Respuestas antioxidantes en dos ecotipos de Colobanthus quitensis (Caryophyllaceae) expuestos a alta radiaci UV-B y baja temperatura. *Revista Chilena De Historia Natural*, **2012**, 85, 419-433	1.8	7
26	Genotypic variation in morphology and freezing resistance of Eucalyptus globulus seedlings subjected to drought hardening in nursery. *Electronic Journal of Biotechnology*, **2010**, 13,	3.1	7
25	Photochemical efficiency of PSII and photoprotective pigments in seedlings and adults of two Proteaceae with different shade tolerance from the Chilean temperate rain forest. *Revista Chilena De Historia Natural*, **2009**, 82,	1.8	7
24	Thermal energy dissipation and its components in two developmental stages of a shade-tolerant species, Nothofagus nitida, and a shade-intolerant species, Nothofagus dombeyi. *Tree Physiology*, **2009**, 29, 651-62	4.2	7
23	Deschampsia antarctica Desv. primary photochemistry performs differently in plants grown in the field and laboratory. *Polar Biology*, **2010**, 33, 477-483	2	7
22	In silico analysis of metatranscriptomic data from the Antarctic vascular plant Colobanthus quitensis: Responses to a global warming scenario through changes in fungal gene expression levels. *Fungal Ecology*, **2020**, 43, 100873	4.1	7
21	Changes in photosynthetic rate and stress volatile emissions through desiccation-rehydration cycles in desiccation-tolerant epiphytic filmy ferns (Hymenophyllaceae). *Plant, Cell and Environment* , **2018**, 41, 1605-1617	8.4	6

20	Contrasting nitrogen use efficiency of Antarctic vascular plants may explain their population expansion in Antarctica. *Polar Biology*, **2017**, 40, 1569-1580	2	5
19	Photoprotective strategies against drought are depending on the elevation provenance in Phacelia secunda. *Alpine Botany*, **2019**, 129, 123-135	2.5	5
18	Salt tolerance traits in Deschampsia antarctica Desv.. *Antarctic Science*, **2016**, 28, 462-472	1.7	5
17	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. *BMC Plant Biology*, **2020**, 20, 56	5.3	4
16	The importance of facilitative interactions on the performance of Colobanthus quitensis in an Antarctic tundra. *Journal of Vegetation Science*, **2018**, 29, 236-244	3.1	4
15	Effects of low temperature acclimation on photosynthesis in three Chilean Proteaceae. *Revista Chilena De Historia Natural*, **2008**, 81,	1.8	4
14	Contrasting thermal acclimation of leaf dark respiration and photosynthesis of Antarctic vascular plant species exposed to nocturnal warming. *Physiologia Plantarum*, **2019**, 167, 205-216	4.6	4
13	Decoding Gene Networks Modules That Explain the Recovery of Cav. After Extreme Desiccation. *Frontiers in Plant Science*, **2020**, 11, 574	6.2	3
12	Expression of a Deschampsia antarctica Desv. polypeptide with lipase activity in a Pichia pastoris vector. *International Journal of Molecular Sciences*, **2014**, 15, 2359-67	6.3	3
11	Freezing tolerance of barley seedlings infested by aphids. *Journal of Plant Physiology*, **1997**, 150, 611-614	3.6	3
10	Salicylic Acid Improves Antioxidant Defense System and Photosynthetic Performance in Plants Subjected to Moderate Drought Stress.. *Plants*, **2022**, 11,	4.5	3
9	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. *Plants*, **2020**, 9,	4.5	2
8	Leaf seasonal accumulation of a 47-kDa dehydrin and changes in its cryoprotective activity in Nothofagus dombeyi (Mirb.) Blume. *Gayana - Botanica*, **2012**, 69, 1-8	1.1	2
7	A high-throughput method for measuring critical thermal limits of leaves by chlorophyll imaging fluorescence. *Functional Plant Biology*, **2021**, 48, 634-646	2.7	2
6	Identification and validation of new reference genes for accurate quantitative reverse transcriptase-PCR normalization in the Antarctic plant Colobanthus quitensis under abiotic stress conditions. *Polar Biology*, **2021**, 44, 389-405	2	2
5	Decomposition of Calcium Oxalate Crystals in under CO Limiting Conditions. *Plants*, **2020**, 9,	4.5	1
4	Effect of in vitro cold acclimation of Deschampsia antarctica on the accumulation of proteins with antifreeze activity. *Journal of Experimental Botany*, **2020**, 71, 2933-2942	7	1
3	Dehydrins presence in xylem parenchyma cells enhances hydraulic conductivity and physiological performance in Nothofagus dombeyi. *South African Journal of Botany*, **2016**, 102, 240-244	2.9	1

2	Conductancia hidr□ulica foliar y vulnerabilidad a la cavitaci□ disminuyen con la altitud en Phacelia secunda J.F. Gmel. (Boraginaceae). *Gayana - Botanica*, **2015**, 72, 84-93	1.1	1
1	Effect of auxin on cluster roots induction in Embothrium coccineum J.R. Forst. & G. Forst. in phosphorus deficiency condition. *Chilean Journal of Agricultural Research*, **2013**, 73, 220-224	1.9	1