Marco A Molina-Montenegro

List of Publications by Citations

110 papers	2,930 citations	25 h-index	51 g-index
118 ext. papers	3,571 ext. citations	3.5 avg, IF	5.23 L-index

#	Paper	IF	Citations
110	Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E7863-E7870	11.5	265
109	Positive interactions between alpine plant species and the nurse cushion plant Laretia acaulis do not increase with elevation in the Andes of central Chile. *New Phytologist*, **2006**, 169, 59-69	9.8	248
108	Microclimatic Modifications of Cushion Plants and Their Consequences for Seedling Survival of Native and Non-native Herbaceous Species in the High Andes of Central Chile. *Arctic, Antarctic, and Alpine Research*, **2007**, 39, 229-236	1.8	170
107	Quinoa biodiversity and sustainability for food security under climate change. A review. *Agronomy for Sustainable Development*, **2014**, 34, 349-359	6.8	161
106	Nurse effect of Bolax gummifera cushion plants in the alpine vegetation of the Chilean Patagonian Andes. *Journal of Vegetation Science*, **2002**, 13, 547-554	3.1	142
105	Nurse effect of the native cushion plant Azorella monantha on the invasive non-native Taraxacum officinale in the high-Andes of central Chile. *Perspectives in Plant Ecology, Evolution and Systematics*, **2005**, 7, 217-226	3	120
104	Variation in salinity tolerance of four lowland genotypes of quinoa (Chenopodium quinoa Willd.) as assessed by growth, physiological traits, and sodium transporter gene expression. *Plant Physiology and Biochemistry*, **2011**, 49, 1333-41	5.4	114
103	Slope aspect influences plant association patterns in the Mediterranean matorral of central Chile. *Journal of Arid Environments*, **2005**, 62, 93-108	2.5	98
102	Positive interactions among plant species for pollinator service: assessing the "magnet species" concept with invasive species. *Oikos*, **2008**, 117, 1833-1839	4	91
101	Biological invasions in terrestrial Antarctica: what is the current status and can we respond?. *Biodiversity and Conservation*, **2015**, 24, 1031-1055	3.4	86
100	Latitudinal patterns in phenotypic plasticity and fitness-related traits: assessing the climatic variability hypothesis (CVH) with an invasive plant species. *PLoS ONE*, **2012**, 7, e47620	3.7	86
99	Occurrence of the non-native annual bluegrass on the Antarctic mainland and its negative effects on native plants. *Conservation Biology*, **2012**, 26, 717-23	6	77
98	Higher plasticity in ecophysiological traits enhances the performance and invasion success of Taraxacum officinale (dandelion) in alpine environments. *Biological Invasions*, **2012**, 14, 21-33	2.7	55
97	Functional roles of microbial symbionts in plant cold tolerance. *Ecology Letters*, **2020**, 23, 1034-1048	10	44
96	Root-endophytes improve the ecophysiological performance and production of an agricultural species under drought condition. *AoB PLANTS*, **2016**, 8,	2.9	38
95	Poa annua L. in the maritime Antarctic: an overview. *Polar Record*, **2015**, 51, 637-643	0.5	37
94	Phenotypic plasticity and performance of Taraxacum officinale (dandelion) in habitats of contrasting environmental heterogeneity. *Biological Invasions*, **2010**, 12, 2277-2284	2.7	34

93	Cushion Plants as Microclimatic Shelters for Two Ladybird Beetles Species in Alpine Zone of Central Chile. *Arctic, Antarctic, and Alpine Research*, **2006**, 38, 224-227	1.8	34
92	Assessing the importance of human activities for the establishment of the invasivePoa annuain Antarctica. *Polar Research*, **2014**, 33, 21425	2	32
91	Climate Change Impacts and Adaptation Strategies of Agriculture in Mediterranean-Climate Regions (MCRs). *Sustainability*, **2019**, 11, 2769	3.6	31
90	Water availability limits tolerance of apical damage in the Chilean tarweed Madia sativa. *Acta Oecologica*, **2008**, 34, 104-110	1.7	28
89	Fungal endophytes associated with roots of nurse cushion species have positive effects on native and invasive beneficiary plants in an alpine ecosystem. *Perspectives in Plant Ecology, Evolution and Systematics*, **2015**, 17, 218-226	3	27
88	Antarctic root endophytes improve physiological performance and yield in crops under salt stress by enhanced energy production and Na sequestration. *Scientific Reports*, **2020**, 10, 5819	4.9	26
87	Leaf litter of Kageneckia angustifolia D. Don (Rosaceae) inhibits seed germination in sclerophyllous montane woodlands of central Chile. *Plant Ecology*, **2007**, 190, 13-22	1.7	26
86	Antarctic Extremophiles: Biotechnological Alternative to Crop Productivity in Saline Soils. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 22	5.8	25
85	Hormonal and physiological changes driven by fungal endophytes increase Antarctic plant performance under UV-B radiation. *Fungal Ecology*, **2018**, 34, 76-82	4.1	25
84	Positive associations between macroalgal species in a rocky intertidal zone and their effects on the physiological performance of Ulva lactuca. *Marine Ecology - Progress Series*, **2005**, 292, 173-180	2.6	25
83	Do heat and smoke increase emergence of exotic and native plants in the matorral of central Chile?. *Acta Oecologica*, **2009**, 35, 335-340	1.7	24
82	Boron stress response and accumulation potential of the extremely tolerant species Puccinellia frigida. *Journal of Hazardous Materials*, **2016**, 317, 476-484	12.8	23
81	Adaptive phenotypic plasticity and competitive ability deployed under a climate change scenario may promote the invasion of Poa annua in Antarctica. *Biological Invasions*, **2016**, 18, 603-618	2.7	23
80	Nurse effect and soil microorganisms are key to improve the establishment of native plants in a semiarid community. *Journal of Arid Environments*, **2016**, 126, 54-61	2.5	23
79	Ecophysiological plasticity and local differentiation help explain the invasion success ofTaraxacum officinale(dandelion) in South America. *Ecography*, **2013**, 36, 718-730	6.5	23
78	Facilitation of the non-native Taraxacum officinale by native nurse cushion species in the high Andes of central Chile: are there differences between nurses?. *Functional Ecology*, **2007**, 22, 070917205248001???	5.6	23
77	Positive interactions between the lichen Usnea antarctica (Parmeliaceae) and the native flora in Maritime Antarctica. *Journal of Vegetation Science*, **2013**, 24, 463-472	3.1	22
76	Is the Success of Plant Invasions the Result of Rapid Adaptive Evolution in Seed Traits? Evidence from a Latitudinal Rainfall Gradient. *Frontiers in Plant Science*, **2018**, 9, 208	6.2	21

75	Efectos de la planta en cojín Oreopolus glacialis (Rubiaceae) sobre la riqueza y diversidad de especies en una comunidad alto-andina de Chile central. *Revista Chilena De Historia Natural*, **2002**, 75, 757	1.8	21
74	Biological Interactions and Simulated Climate Change Modulates the Ecophysiological Performance of Colobanthus quitensis in the Antarctic Ecosystem. *PLoS ONE*, **2016**, 11, e0164844	3.7	21
73	Leaf trichome density may explain herbivory patterns of Actinote sp. (Lepidoptera: Acraeidae) on Liabum mandonii (Asteraceae) in a montane humid forest (Nor Yungas, Bolivia). *Acta Oecologica*, **2006**, 30, 147-150	1.7	20
72	Fungal Endophytes Exert Positive Effects on Under Water Stress but Neutral Under a Projected Climate Change Scenario in Antarctica. *Frontiers in Microbiology*, **2020**, 11, 264	5.7	19
71	Is physiological performance a good predictor for fitness? Insights from an invasive plant species. *PLoS ONE*, **2013**, 8, e76432	3.7	19
70	Functional differences in response to drought in the invasive Taraxacum officinale from native and introduced alpine habitat ranges. *Plant Ecology and Diversity*, **2011**, 4, 37-44	2.2	19
69	Alpine dandelions originated in the native and introduced range differ in their responses to environmental constraints. *Ecological Research*, **2009**, 24, 175-183	1.9	19
68	The trade-off between cold resistance and growth determines the Nothofagus pumilio treeline. *Plant Ecology*, **2012**, 213, 133-142	1.7	18
67	Interactive effects of leaf damage, light intensity and support availability on chemical defenses and morphology of a twining vine. *Journal of Chemical Ecology*, **2007**, 33, 95-103	2.7	17
66	Insights into the relationship between the h-index and self-citations. *Journal of the Association for Information Science and Technology*, **2009**, 60, 1283-1285		16
65	Does global warming induce segregation among alien and native beetle species in a mountain-top?. *Ecological Research*, **2009**, 24, 31-36	1.9	16
64	Antarctic rhizobacteria improve salt tolerance and physiological performance of the Antarctic vascular plants. *Polar Biology*, **2018**, 41, 1973-1982	2	16
63	Plasticidad fenotípica en dos poblaciones antárticas de Colobanthus quitensis (Caryophyllaceae) bajo un escenario simulado de cambio global. *Gayana - Botanica*, **2012**, 69, 152-160	1.1	15
62	Can a breakdown in competition–colonization tradeoffs help explain the success of exotic species in the California flora?. *Oikos*, **2012**, 121, 389-395	4	14
61	Leaf damage induces twining in a climbing plant. *New Phytologist*, **2005**, 167, 385-9	9.8	14
60	Variación altitudinal de los atributos morfo-fisiológicos en dos especies de plantas alto-andinas y sus implicancias contra la fotoinhibición. *Gayana - Botanica*, **2010**, 67,	1.1	13
59	Nurse effect of Bolax gummifera cushion plants in the alpine vegetation of the Chilean Patagonian Andes. *Journal of Vegetation Science*, **2002**, 13, 547	3.1	13
58	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

57	Occurrence of Alkaloids in Grass Seeds Symbiotic With Vertically-Transmitted Epichlo Fungal Endophytes and Its Relationship With Antioxidants. *Frontiers in Ecology and Evolution*, **2018**, 6,	3.7	13
56	Small-scale disturbances spread along trophic chains: leaf-cutting ant nests, plants, aphids, and tending ants. *Ecological Research*, **2009**, 24, 139-145	1.9	12
55	Asymmetric responses to simulated global warming by populations of along a latitudinal gradient. *PeerJ*, **2017**, 5, e3718	3.1	12
54	Nutrient exchange in arbuscular mycorrhizal symbiosis from a thermodynamic point of view. *New Phytologist*, **2019**, 222, 1043-1053	9.8	12
53	Multiple late-Pleistocene colonisation events of the Antarctic pearlwort Colobanthus quitensis (Caryophyllaceae) reveal the recent arrival of native Antarctic vascular flora. *Journal of Biogeography*, **2020**, 47, 1663-1673	4.1	12
52	Bacterial community structure in a sympagic habitat expanding with global warming: brackish ice brine at 85-90 °N. *ISME Journal*, **2019**, 13, 316-333	11.9	11
51	Hongos end itos ant ticos como herramienta para la reintroducci de especies nativas en zonas idas. *Bosque*, **2014**, 35, 235-239	0.8	10
50	Increasing impacts by Antarctica s most widespread invasive plant species as result of direct competition with native vascular plants. *NeoBiota*,51, 19-40	4.2	10
49	A Systematic Review on the Effects of Fungal Endophytes on Drought Tolerance in Cool-Season Grasses. *Frontiers in Plant Science*, **2021**, 12, 644731	6.2	10
48	A recolonization record of the invasive Poa annua in Paradise Bay, Antarctic Peninsula: modeling of the potential spreading risk. *Polar Biology*, **2015**, 38, 1091-1096	2	9
47	Induced Systemic Resistance by a Plant Growth-Promoting Rhizobacterium Impacts Development and Feeding Behavior of Aphids. *Insects*, **2020**, 11,	2.8	9
46	Biological and genetic features of introduced aphid populations in agroecosystems. *Current Opinion in Insect Science*, **2018**, 26, 63-68	5.1	9
45	Fungal Endophytes Enhance the Photoprotective Mechanisms and Photochemical Efficiency in the Antarctic Colobanthus quitensis (Kunth) Bartl. Exposed to UV-B Radiation. *Frontiers in Ecology and Evolution*, **2020**, 8,	3.7	8
44	A first insight into the structure and function of rhizosphere microbiota in Antarctic plants using shotgun metagenomic. *Polar Biology*, **2019**, 42, 1825-1835	2	8
43	Genetic diversity of Colobanthus quitensis across the Drake Passage. *Plant Genetic Resources: Characterisation and Utilisation*, **2014**, 12, 147-150	1	8
42	Root endophytic Penicillium promotes growth of Antarctic vascular plants by enhancing nitrogen mineralization. *Extremophiles*, **2020**, 24, 721-732	3	8
41	Positive interactions by cushion plants in high mountains: fact or artifact?. *Journal of Plant Ecology*, **2016**, 9, 117-123	1.7	7
40	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

39	EFFECT OF DENSITY AND FLOWER SIZE ON THE REPRODUCTIVE SUCCESS OF NOTHOSCORDUM GRAMINUM (ALLIACEAE). *Gayana - Botanica*, **2006**, 63, 93	1.1	7
38	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
37	Getting ready for the ozone battle: Vertically transmitted fungal endophytes have transgenerational positive effects in plants. *Plant, Cell and Environment*, **2021**, 44, 2716-2728	8.4	7
36	Positive interactions among native and invasive vascular plants in Antarctica: assessing the nurse effect at different spatial scales. *Biological Invasions*, **2019**, 21, 2819-2836	2.7	6
35	Impact of mycorrhizae and irrigation in the survival of seedlings of Pinus radiata D. Don subject to drought. *Gayana - Botanica*, **2012**, 69, 296-304	1.1	6
34	Variation in phenology and overall performance traits can help to explain the plant invasion process amongst Mediterranean ecosystems. *NeoBiota*,41, 67-89	4.2	6
33	Isolation and characterization of an Antarctic Flavobacterium strain with agarase and alginate lyase activities. *Polish Polar Research*, **2016**, 37, 403-419		6
32	The effect of future climate change on the conservation of Chloraea disoides Lindl. (Orchidaceae) in Chile. *Revista Brasileira De Botanica*, **2017**, 40, 353-360	1.2	5
31	Seabirds modify El Niño effects on tree growth in a southern Pacific island. *Ecology*, **2013**, 94, 2415-25	4.6	5
30	WITHIN-POPULATION GENETIC DIVERSITY OF CLIMBING PLANTS AND TREES IN A TEMPERATE FOREST IN CENTRAL CHILE. *Gayana - Botanica*, **2013**, 70, 36-43	1.1	5
29	Fungal Symbionts Enhance N-Uptake for Antarctic Plants Even in Non-N Limited Soils. *Frontiers in Microbiology*, **2020**, 11, 575563	5.7	5
28	Maternal Exposure to Ozone Modulates the Endophyte-Conferred Resistance to Aphids in Plants. *Insects*, **2020**, 11,	2.8	5
27	Symbiotic Interaction Enhances the Recovery of Endangered Tree Species in the Fragmented Maulino Forest. *Frontiers in Plant Science*, **2021**, 12, 663017	6.2	5
26	Woody climbers show greater population genetic differentiation than trees: Insights into the link between ecological traits and diversification. *Evolution; International Journal of Organic Evolution*, **2016**, 70, 2736-2745	3.8	5
25	Induced twining in Ipomoea purpurea (L.) Roth.: response threshold and induction by volatiles and snail damage. *Gayana - Botanica*, **2014**, 71, 181-187	1.1	4
24	Genome-wide association study of cyanogenic glycosides, proline, sugars, and pigments in Eucalyptus cladocalyx after 18 consecutive dry summers. *Physiologia Plantarum*, **2021**, 172, 1550-1569	4.6	4
23	What if the cold days return? Epigenetic mechanisms in plants to cold tolerance. *Planta*, **2021**, 254, 46	4.7	4
22	Integration of Physiological and Molecular Traits Would Help to Improve the Insights of Drought Resistance in Highbush Blueberry Cultivars. *Plants*, **2020**, 9,	4.5	3

21	A tradeoff between fitness-related traits mask facilitation in a semiarid ecosystem. *Oikos*, **2020**, 129, 1196-1203	4	3
20	Root endophytes improve physiological performance and yield in crops under salt stress by up-regulating the foliar sodium concentration		3
19	Assessing the geographic dichotomy hypothesis with cacti in South America. *Plant Biology*, **2018**, 20, 399-402	3.7	3
18	Antarctic macrolichen modifies microclimate and facilitates vascular plants in the maritime Antarctica a reply to Casanova-Katny et´al. (2014). *Journal of Vegetation Science*, **2014**, 25, 606-608	3.1	2
17	Antarctic Ecology One Century after the Conquest of the South Pole: How Much Have We Advanced?. *BioScience*, **2014**, 64, 593-600	5.7	2
16	Fungal Endophytes Influence Seed-Associated Bacterial Communities.. *Frontiers in Microbiology*, **2021**, 12, 795354	5.7	2
15	Linking Climatic Variability with Spatial Performance in Two Varieties of Quinoa Distributed in a Semi-Arid Zone. *American Journal of Plant Sciences*, **2012**, 03, 1682-1687	0.5	2
14	Root fungal endophytes improve the growth of antarctic plants through an enhanced nitrogen acquisition		2
13	Genotoxicity of oxidative stress and UV-B radiation in Antarctic vascular plants. *Polar Biology*, **2021**, 44, 1029-1036	2	2
12	Ecophysiological basis of the Jack-and-Master strategy:Taraxacum officinale(dandelion) as an example of a successful invader. *Journal of Plant Ecology*, **2016**, rtw121	1.7	2
11	Top-Down and Bottom-Up Effects Deployed by a Nurse Shrub Allow Facilitating an Endemic Mediterranean Orchid. *Frontiers in Ecology and Evolution*, **2019**, 7,	3.7	2
10	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
9	Molecular and structural characterization of expansins modulated by fungal endophytes in the Antarctic Colobanthus quitensis (Kunth) Bartl. Exposed to drought stress. *Plant Physiology and Biochemistry*, **2021**, 168, 465-476	5.4	1
8	Evolution of physiological performance in invasive plants under climate change. *Evolution; International Journal of Organic Evolution*, **2021**, 75, 3181-3190	3.8	1
7	Fungal endophytes improve the performance of host plants but do not eliminate the growth/defence trade-off.. *New Phytologist*, **2022**,	9.8	1
6	Trends in Antarctic ecological research in Latin America shown by publications in international journals. *Polar Research*, **2013**, 32, 19993	2	0
5	Positive interaction between shrubs and native orchids in a Mediterranean ecosystem. *Revista Brasileira De Botanica*, **2020**, 43, 1025-1036	1.2	0
4	Biological Soil Crusts as Ecosystem Engineers in Antarctic Ecosystem.. *Frontiers in Microbiology*, **2022**, 13, 755014	5.7	0

3	Hardening Blueberry Plants to Face Drought and Cold Events by the Application of Fungal Endophytes. *Agronomy*, **2022**, 12, 1000	3.6	0
2	Differential Impact of an Eclipse on Photosynthetic Performance of Trees with Different Degrees of Shade Tolerance. *Forests*, **2021**, 12, 1353	2.8	
1	Isolation and characterization of microsatellites for the endangered endemic tree Nothofagus alessandrii (Nothofagaceae). *Molecular Biology Reports*, **2021**, 48, 3877-3883	2.8	