Marco A Molina-Montenegro

List of Publications by Year
in descending order

114 papers	4,164 citations	172457 29 h-index	133252 59 g-index
118 all docs	118 docs citations	118 times ranked	4709 citing authors

#	Article	IF	Citations
1	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.	7.1	401
2	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.	7.3	284
3	Quinoa biodiversity and sustainability for food security under climate change. A review. Agronomy for Sustainable Development, 2014, 34, 349-359.	5.3	244
4	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.	1.1	192
5	Nurse effect of Bolax gummifera cushion plants in the alpine vegetation of the Chilean Patagonian Andes. Journal of Vegetation Science, 2002, 13, 547-554.	2.2	156
6	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, 1333-1341.	5.8	154
7	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.	2.7	143
8	Biological invasions in terrestrial Antarctica: what is the current status and can we respond?. Biodiversity and Conservation, 2015, 24, 1031-1055.	2.6	124
9	Slope aspect influences plant association patterns in the Mediterranean matorral of central Chile. Journal of Arid Environments, 2005, 62, 93-108.	2.4	122
10	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.	2.5	117
11	Positive interactions among plant species for pollinator service: assessing the â€˜magnet speciesâ€™ concept with invasive species. Oikos, 2008, 117, 1833-1839.	2.7	110
12	Occurrence of the Nonâ€Native Annual Bluegrass on the Antarctic Mainland and Its Negative Effects on Native Plants. Conservation Biology, 2012, 26, 717-723.	4.7	91
13	Climate Change Impacts and Adaptation Strategies of Agriculture in Mediterranean-Climate Regions (MCRs). Sustainability, 2019, 11, 2769.	3.2	89
14	Functional roles of microbial symbionts in plant cold tolerance. Ecology Letters, 2020, 23, 1034-1048.	6.4	79
15	Higher plasticity in ecophysiological traits enhances the performance and invasion success of Taraxacum officinale (dandelion) in alpine environments. Biological Invasions, 2012, 14, 21-33.	2.4	71
16	Facilitation of the nonâ€native Taraxacum officinale by native nurse cushion species in the high Andes of central Chile: are there differences between nurses?. Functional Ecology, 2008, 22, 148-156.	3.6	59
17	Root-endophytes improve the ecophysiological performance and production of an agricultural species under drought condition. AoB PLANTS, 2016, 8, .	2.3	57
18	Fungal Endophytes Exert Positive Effects on Colobanthus quitensis Under Water Stress but Neutral Under a Projected Climate Change Scenario in Antarctica. Frontiers in Microbiology, 2020, 11, 264.	3.5	56

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19	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.	3.3	54
20	Poa annuaL. in the maritime Antarctic: an overview. Polar Record, 2015, 51, 637-643.	0.8	50
21	Phenotypic plasticity and performance of Taraxacum officinale (dandelion) in habitats of contrasting environmental heterogeneity. Biological Invasions, 2010, 12, 2277-2284.	2.4	44
22	Hormonal and physiological changes driven by fungal endophytes increase Antarctic plant performance under UV-B radiation. Fungal Ecology, 2018, 34, 76-82.	1.6	42
23	Antarctic Extremophiles: Biotechnological Alternative to Crop Productivity in Saline Soils. Frontiers in Bioengineering and Biotechnology, 2019, 7, 22.	4.1	40
24	Biological Interactions and Simulated Climate Change Modulates the Ecophysiological Performance of Colobanthus quitensis in the Antarctic Ecosystem. PLoS ONE, 2016, 11, e0164844.	2.5	38
25	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.	1.1	36
26	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.	3.6	36
27	Assessing the importance of human activities for the establishment of the invasivePoa annuain Antarctica. Polar Research, 2014, 33, 21425.	1.6	35
28	Leaf litter of Kageneckia angustifolia D. Don (Rosaceae) inhibits seed germination in sclerophyllous montane woodlands of central Chile. Plant Ecology, 2007, 190, 13-22.	1.6	34
29	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.	2.7	34
30	Ecophysiological plasticity and local differentiation help explain the invasion success of Taraxacum officinale (dandelion) in South America. Ecography, 2013, 36, 718-730.	4.5	33
31	Antarctic rhizobacteria improve salt tolerance and physiological performance of the Antarctic vascular plants. Polar Biology, 2018, 41, 1973-1982.	1.2	33
32	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.	1.9	33
33	Efectos de la planta en cojÃn 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.	1.2	31
34	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.	2.4	31
35	Water availability limits tolerance of apical damage in the Chilean tarweed Madia sativa. Acta Oecologica, 2008, 34, 104-110.	1.1	30
36	The trade-off between cold resistance and growth determines the Nothofagus pumilio treeline. Plant Ecology, 2012, 213, 133-142.	1.6	30

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37	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.	2.4	30
38	A Systematic Review on the Effects of EpichloÃ« Fungal Endophytes on Drought Tolerance in Cool-Season Grasses. Frontiers in Plant Science, 2021, 12, 644731.	3.6	29
39	Boron stress response and accumulation potential of the extremely tolerant species Puccinellia frigida. Journal of Hazardous Materials, 2016, 317, 476-484.	12.4	28
40	Do heat and smoke increase emergence of exotic and native plants in the matorral of central Chile?. Acta Oecologica, 2009, 35, 335-340.	1.1	27
41	Leaf trichome density may explain herbivory patterns ofÂActinote sp. (Lepidoptera: Acraeidae) onÂLiabumÂmandonii (Asteraceae) inÂaÂmontane humid forest (Nor Yungas, Bolivia). Acta Oecologica, 2006, 30, 147-150.	1.1	26
42	Increasing impacts by Antarcticaâ€™s most widespread invasive plant species as result of direct competition with native vascular plants. NeoBiota, 0, 51, 19-40.	1.0	26
43	Positive interactions between the lichen <scp>U</scp>snea antarctica (<scp>P</scp>armeliaceae) and the native flora in <scp>M</scp>aritime <scp>A</scp>ntarctica. Journal of Vegetation Science, 2013, 24, 463-472.	2.2	25
44	Insights into the relationship between the hâ€index and selfâ€citations. Journal of the Association for Information Science and Technology, 2009, 60, 1283-1285.	2.6	24
45	Functional differences in response to drought in the invasiveTaraxacum officinalefrom native and introduced alpine habitat ranges. Plant Ecology and Diversity, 2011, 4, 37-44.	2.4	24
46	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, .	2.2	24
47	Multiple lateâ€Pleistocene colonisation events of the Antarctic pearlwortColobanthus quitensis(Caryophyllaceae) reveal the recent arrival of native Antarctic vascular flora. Journal of Biogeography, 2020, 47, 1663-1673.	3.0	24
48	Is Physiological Performance a Good Predictor for Fitness? Insights from an Invasive Plant Species. PLoS ONE, 2013, 8, e76432.	2.5	23
49	Root endophytic Penicillium promotes growth of Antarctic vascular plants by enhancing nitrogen mineralization. Extremophiles, 2020, 24, 721-732.	2.3	23
50	Alpine dandelions originated in the native and introduced range differ in their responses to environmental constraints. Ecological Research, 2009, 24, 175-183.	1.5	22
51	Biological and genetic features of introduced aphid populations in agroecosystems. Current Opinion in Insect Science, 2018, 26, 63-68.	4.4	22
52	Occurrence of Alkaloids in Grass Seeds Symbiotic With Vertically-Transmitted EpichloÃ« Fungal Endophytes and Its Relationship With Antioxidants. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	22
53	Asymmetric responses to simulated global warming by populations of Colobanthus quitensis along a latitudinal gradient. PeerJ, 2017, 5, e3718.	2.0	21
54	Plasticidad fenotÃpica en dos poblaciones antÃ¡rticas de Colobanthus quitensis (Caryophyllaceae) bajo un escenario simulado de cambio global. Gayana - Botanica, 2012, 69, 152-160.	0.2	19

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55	Nutrient exchange in arbuscular mycorrhizal symbiosis from a thermodynamic point of view. New Phytologist, 2019, 222, 1043-1053.	7.3	19
56	Induced Systemic Resistance by a Plant Growth-Promoting Rhizobacterium Impacts Development and Feeding Behavior of Aphids. Insects, 2020, 11, 234.	2.2	19
57	Interactive Effects of Leaf Damage, Light Intensity and Support Availability on Chemical Defenses and Morphology of a Twining Vine. Journal of Chemical Ecology, 2006, 33, 95-103.	1.8	18
58	Can a breakdown in competitionâ€“colonization tradeoffs help explain the success of exotic species in the California flora?. Oikos, 2012, 121, 389-395.	2.7	18
59	A first insight into the structure and function of rhizosphere microbiota in Antarctic plants using shotgun metagenomic. Polar Biology, 2019, 42, 1825-1835.	1.2	18
60	Bacterial community structure in a sympagic habitat expanding with global warming: brackish ice brine at 85â€“90 Â°N. ISME Journal, 2019, 13, 316-333.	9.8	18
61	Does global warming induce segregation among alien and native beetle species in a mountainâ€top?. Ecological Research, 2009, 24, 31-36.	1.5	17
62	VariaciÃ³n altitudinal de los atributos morfo-fisiolÃ³gicos en dos especies de plantas alto-andinas y sus implicancias contra la fotoinhibiciÃ³n. Gayana - Botanica, 2010, 67, .	0.2	17
63	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, .	1.2	17
64	Leaf damage induces twining in a climbing plant. New Phytologist, 2005, 167, 385-390.	7.3	16
65	Getting ready for the ozone battle: Vertically transmitted fungal endophytes have transgenerational positive effects in plants. Plant, Cell and Environment, 2021, 44, 2716-2728.	5.7	16
66	Smallâ€scale disturbances spread along trophic chains: leafâ€cutting ant nests, plants, aphids, and tending ants. Ecological Research, 2009, 24, 139-145.	1.5	14
67	Hongos endÃ³fitos antÃ¡rticos como herramienta para la reintroducciÃ³n de especies nativas en zonas Ã¡ridas. Bosque, 2014, 35, 235-239.	0.3	14
68	Nurse effect of Bolax gummifera cushion plants in the alpine vegetation of the Chilean Patagonian Andes. Journal of Vegetation Science, 2002, 13, 547.	2.2	13
69	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.	1.2	13
70	Positive interactions among native and invasive vascular plants in Antarctica: assessing the â€œnurse effectâ€•at different spatial scales. Biological Invasions, 2019, 21, 2819-2836.	2.4	13
71	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.	1.6	13
72	Variation in phenology and overall performance traits can help to explain the plant invasion process amongst Mediterranean ecosystems. NeoBiota, 0, 41, 67-89.	1.0	11

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73	Respuestas antioxidantes en dos ecotipos de Colobanthus quitensis (Caryophyllaceae) expuestos a alta radiaciÃ³n UV-B y baja temperatura. Revista Chilena De Historia Natural, 2012, 85, 419-433.	1.2	10
74	Seabirds modify El NiÃ±o effects on tree growth in a southern Pacific island. Ecology, 2013, 94, 2415-2425.	3.2	10
75	Integration of Physiological and Molecular Traits Would Help to Improve the Insights of Drought Resistance in Highbush Blueberry Cultivars. Plants, 2020, 9, 1457.	3.5	10
76	What if the cold days return? Epigenetic mechanisms in plants to cold tolerance. Planta, 2021, 254, 46.	3.2	10
77	EpichloÃ« Fungal Endophytes Influence Seed-Associated Bacterial Communities. Frontiers in Microbiology, 2021, 12, 795354.	3.5	10
78	Hardening Blueberry Plants to Face Drought and Cold Events by the Application of Fungal Endophytes. Agronomy, 2022, 12, 1000.	3.0	10
79	Positive interactions by cushion plants in high mountains: fact or artifact?. Journal of Plant Ecology, 2016, 9, 117-123.	2.3	9
80	Maternal Exposure to Ozone Modulates the Endophyte-Conferred Resistance to Aphids in Lolium multiflorum Plants. Insects, 2020, 11, 548.	2.2	9
81	Symbiotic Interaction Enhances the Recovery of Endangered Tree Species in the Fragmented Maulino Forest. Frontiers in Plant Science, 2021, 12, 663017.	3.6	9
82	EFFECT OF DENSITY AND FLOWER SIZE ON THE REPRODUCTIVE SUCCESS OF NOTHOSCORDUM GRAMINUM (ALLIACEAE). Gayana - Botanica, 2006, 63, 93.	0.2	8
83	Genetic diversity of Colobanthus quitensis across the Drake Passage. Plant Genetic Resources: Characterisation and Utilisation, 2014, 12, 147-150.	0.8	8
84	Fungal Symbionts Enhance N-Uptake for Antarctic Plants Even in Non-N Limited Soils. Frontiers in Microbiology, 2020, 11, 575563.	3.5	8
85	Genomeâ€wide association study of cyanogenic glycosides, proline, sugars, and pigments in <scp>Eucalyptus cladocalyx</scp> after 18 consecutive dry summers. Physiologia Plantarum, 2021, 172, 1550-1569.	5.2	8
86	Evolution of physiological performance in invasive plants under climate change*. Evolution; International Journal of Organic Evolution, 2021, 75, 3181-3190.	2.3	8
87	Isolation and characterization of an Antarctic Flavobacterium strain with agarase and alginate lyase activities. Polish Polar Research, 2016, 37, 403-419.	0.9	7
88	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.	5.8	7
89	Impact of mycorrhizae and irrigation in the survival of seedlings of Pinus radiata D. Don subject to drought. Gayana - Botanica, 2012, 69, 296-304.	0.2	6
90	The effect of future climate change on the conservation of Chloraea disoides Lindl. (Orchidaceae) in Chile. Revista Brasileira De Botanica, 2017, 40, 353-360.	1.3	6

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91	Genotoxicity of oxidative stress and UV-B radiation in Antarctic vascular plants. Polar Biology, 2021, 44, 1029-1036.	1.2	6
92	Biological Soil Crusts as Ecosystem Engineers in Antarctic Ecosystem. Frontiers in Microbiology, 2022, 13, 755014.	3.5	6
93	Induced twining in Ipomoea purpurea (L.) Roth.: response threshold and induction by volatiles and snail damage. Gayana - Botanica, 2014, 71, 181-187.	0.2	5
94	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.	2.3	5
95	Assessing the geographic dichotomy hypothesis with cacti in South America. Plant Biology, 2018, 20, 399-402.	3.8	5
96	WITHIN-POPULATION GENETIC DIVERSITY OF CLIMBING PLANTS AND TREES IN A TEMPERATE FOREST IN CENTRAL CHILE. Gayana - Botanica, 2013, 70, 36-43.	0.2	5
97	Fungal endophytes improve the performance of host plants but do not eliminate the growth/defence tradeâ€off. New Phytologist, 2022, 235, 384-387.	7.3	5
98	Ecophysiological basis of the Jack-and-Master strategy:Taraxacum officinale(dandelion) as an example of a successful invader. Journal of Plant Ecology, 0, , rtw121.	2.3	4
99	Top-Down and Bottom-Up Effects Deployed by a Nurse Shrub Allow Facilitating an Endemic Mediterranean Orchid. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	4
100	A tradeoff between fitnessâ€related traits mask facilitation in a semiarid ecosystem. Oikos, 2020, 129, 1196-1203.	2.7	4
101	Antarctic macrolichen modifies microclimate and facilitates vascular plants in the maritime <scp>A</scp>ntarctica â€“ a reply to Casanovaâ€Katny etÂal. (2014). Journal of Vegetation Science, 2014, 25, 606-608.	2.2	3
102	Antarctic Ecology One Century after the Conquest of the South Pole: How Much Have We Advanced?. BioScience, 2014, 64, 593-600.	4.9	2
103	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.	0.8	2
104	Human Activity in Antarctica: Effects on Metallic Trace Elements (MTEs) in Plants and Soils. Plants, 2021, 10, 2593.	3.5	2
105	Mycorrhizal fungi isolated from Chilean orchids as biocontrollers of the pathogen Rhizoctonia solani. Gayana - Botanica, 2021, 78, 113-120.	0.2	2
106	Trends in Antarctic ecological research in Latin America shown by publications in international journals. Polar Research, 2013, 32, 19993.	1.6	1
107	Dehydrins presence in xylem parenchyma cells enhances hydraulic conductivity and physiological performance in Nothofagus dombeyi. South African Journal of Botany, 2016, 102, 240-244.	2.5	1
108	Positive interaction between shrubs and native orchids in a Mediterranean ecosystem. Revista Brasileira De Botanica, 2020, 43, 1025-1036.	1.3	1

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109	Sphericity and smaller pollen-size are better represented in introduced rather than native plant species. Gayana - Botanica, 2011, 68, 330-332.	0.2	1
110	Differential Impact of an Eclipse on Photosynthetic Performance of Trees with Different Degrees of Shade Tolerance. Forests, 2021, 12, 1353.	2.1	1
111	Â¿Pueden los rasgos hidrÃ¡ulicos ayudar a explicar los lÃmites de distribuciÃ³n actual en dos especies de Nothofagus en los Andes de Chile?. Gayana - Botanica, 2019, 76, 237-246.	0.2	1
112	Lichen diversity associated with native forest of the Achibueno river ravine, Maule region, Chile. Gayana - Botanica, 2021, 78, 200-207.	0.2	1
113	Isolation and characterization of microsatellites for the endangered endemic tree Nothofagus alessandrii (Nothofagaceae). Molecular Biology Reports, 2021, 48, 3877-3883.	2.3	0
114	The conquest of the South Pole: Importance and lessons for the present. Revista Chilena De Historia Natural, 2012, 85, 365-367.	1.2	0