

Marco A Molina-Montenegro

List of Publications by Year in descending order

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114
papers

4,164
citations

172207

29
h-index

133063

59
g-index

118
all docs

118
docs citations

118
times ranked

4709
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological Soil Crusts as Ecosystem Engineers in Antarctic Ecosystem. <i>Frontiers in Microbiology</i> , 2022, 13, 755014.	1.5	6
2	Hardening Blueberry Plants to Face Drought and Cold Events by the Application of Fungal Endophytes. <i>Agronomy</i> , 2022, 12, 1000.	1.3	10
3	Fungal endophytes improve the performance of host plants but do not eliminate the growth/defence trade-off. <i>New Phytologist</i> , 2022, 235, 384-387.	3.5	5
4	Genome-wide association study of cyanogenic glycosides, proline, sugars, and pigments in <i>Eucalyptus cladocalyx</i> after 18 consecutive dry summers. <i>Physiologia Plantarum</i> , 2021, 172, 1550-1569.	2.6	8
5	Getting ready for the ozone battle: Vertically transmitted fungal endophytes have transgenerational positive effects in plants. <i>Plant, Cell and Environment</i> , 2021, 44, 2716-2728.	2.8	16
6	A Systematic Review on the Effects of <i>Epichloa</i> Fungal Endophytes on Drought Tolerance in Cool-Season Grasses. <i>Frontiers in Plant Science</i> , 2021, 12, 644731.	1.7	29
7	Genotoxicity of oxidative stress and UV-B radiation in Antarctic vascular plants. <i>Polar Biology</i> , 2021, 44, 1029-1036.	0.5	6
8	Symbiotic Interaction Enhances the Recovery of Endangered Tree Species in the Fragmented Maulino Forest. <i>Frontiers in Plant Science</i> , 2021, 12, 663017.	1.7	9
9	Isolation and characterization of microsatellites for the endangered endemic tree <i>Nothofagus alessandrii</i> (Nothofagaceae). <i>Molecular Biology Reports</i> , 2021, 48, 3877-3883.	1.0	0
10	What if the cold days return? Epigenetic mechanisms in plants to cold tolerance. <i>Planta</i> , 2021, 254, 46.	1.6	10
11	Evolution of physiological performance in invasive plants under climate change*. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 3181-3190.	1.1	8
12	Differential Impact of an Eclipse on Photosynthetic Performance of Trees with Different Degrees of Shade Tolerance. <i>Forests</i> , 2021, 12, 1353.	0.9	1
13	Molecular and structural characterization of expansins modulated by fungal endophytes in the Antarctic <i>Colobanthus quitensis</i> (Kunth) Bartl. Exposed to drought stress. <i>Plant Physiology and Biochemistry</i> , 2021, 168, 465-476.	2.8	7
14	Human Activity in Antarctica: Effects on Metallic Trace Elements (MTEs) in Plants and Soils. <i>Plants</i> , 2021, 10, 2593.	1.6	2
15	<i>Epichloa</i> Fungal Endophytes Influence Seed-Associated Bacterial Communities. <i>Frontiers in Microbiology</i> , 2021, 12, 795354.	1.5	10
16	Lichen diversity associated with native forest of the Achibueno river ravine, Maule region, Chile. <i>Gayana - Botanica</i> , 2021, 78, 200-207.	0.3	1
17	Mycorrhizal fungi isolated from Chilean orchids as biocontrollers of the pathogen <i>Rhizoctonia solani</i> . <i>Gayana - Botanica</i> , 2021, 78, 113-120.	0.3	2
18	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.	0.7	13

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19	Fungal Symbionts Enhance N-Uptake for Antarctic Plants Even in Non-N Limited Soils. <i>Frontiers in Microbiology</i> , 2020, 11, 575563.	1.5	8
20	Root endophytic <i>Penicillium</i> promotes growth of Antarctic vascular plants by enhancing nitrogen mineralization. <i>Extremophiles</i> , 2020, 24, 721-732.	0.9	23
21	Positive interaction between shrubs and native orchids in a Mediterranean ecosystem. <i>Revista Brasileira De Botanica</i> , 2020, 43, 1025-1036.	0.5	1
22	Maternal Exposure to Ozone Modulates the Endophyte-Conferred Resistance to Aphids in <i>Lolium multiflorum</i> Plants. <i>Insects</i> , 2020, 11, 548.	1.0	9
23	Integration of Physiological and Molecular Traits Would Help to Improve the Insights of Drought Resistance in Highbush Blueberry Cultivars. <i>Plants</i> , 2020, 9, 1457.	1.6	10
24	Fungal Endophytes Enhance the Photoprotective Mechanisms and Photochemical Efficiency in the Antarctic <i>Colobanthus quitensis</i> (Kunth) Bartl. Exposed to UV-B Radiation. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	24
25	Fungal Endophytes Exert Positive Effects on <i>Colobanthus quitensis</i> Under Water Stress but Neutral Under a Projected Climate Change Scenario in Antarctica. <i>Frontiers in Microbiology</i> , 2020, 11, 264.	1.5	56
26	Induced Systemic Resistance by a Plant Growth-Promoting Rhizobacterium Impacts Development and Feeding Behavior of Aphids. <i>Insects</i> , 2020, 11, 234.	1.0	19
27	Antarctic root endophytes improve physiological performance and yield in crops under salt stress by enhanced energy production and Na ⁺ sequestration. <i>Scientific Reports</i> , 2020, 10, 5819.	1.6	54
28	Functional roles of microbial symbionts in plant cold tolerance. <i>Ecology Letters</i> , 2020, 23, 1034-1048.	3.0	79
29	A tradeoff between fitness-related traits mask facilitation in a semiarid ecosystem. <i>Oikos</i> , 2020, 129, 1196-1203.	1.2	4
30	Multiple late-Pleistocene colonisation events of the Antarctic pearlwort <i>Colobanthus quitensis</i> (Caryophyllaceae) reveal the recent arrival of native Antarctic vascular flora. <i>Journal of Biogeography</i> , 2020, 47, 1663-1673.	1.4	24
31	A first insight into the structure and function of rhizosphere microbiota in Antarctic plants using shotgun metagenomic. <i>Polar Biology</i> , 2019, 42, 1825-1835.	0.5	18
32	Positive interactions among native and invasive vascular plants in Antarctica: assessing the nurse effect at different spatial scales. <i>Biological Invasions</i> , 2019, 21, 2819-2836.	1.2	13
33	Climate Change Impacts and Adaptation Strategies of Agriculture in Mediterranean-Climate Regions (MCRs). <i>Sustainability</i> , 2019, 11, 2769.	1.6	89
34	Antarctic Extremophiles: Biotechnological Alternative to Crop Productivity in Saline Soils. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 22.	2.0	40
35	Top-Down and Bottom-Up Effects Deployed by a Nurse Shrub Allow Facilitating an Endemic Mediterranean Orchid. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	1.1	4
36	Bacterial community structure in a sympagic habitat expanding with global warming: brackish ice brine at 85°N. <i>ISME Journal</i> , 2019, 13, 316-333.	4.4	18

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37	Nutrient exchange in arbuscular mycorrhizal symbiosis from a thermodynamic point of view. <i>New Phytologist</i> , 2019, 222, 1043-1053.	3.5	19
38	¿Pueden los rasgos hidrúlicos ayudar a explicar los límites de distribución actual en dos especies de <i>Nothofagus</i> en los Andes de Chile?. <i>Gayana - Botanica</i> , 2019, 76, 237-246.	0.3	1
39	Biological and genetic features of introduced aphid populations in agroecosystems. <i>Current Opinion in Insect Science</i> , 2018, 26, 63-68.	2.2	22
40	Assessing the geographic dichotomy hypothesis with cacti in South America. <i>Plant Biology</i> , 2018, 20, 399-402.	1.8	5
41	Occurrence of Alkaloids in Grass Seeds Symbiotic With Vertically-Transmitted Epichloa Fungal Endophytes and Its Relationship With Antioxidants. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	1.1	22
42	Antarctic rhizobacteria improve salt tolerance and physiological performance of the Antarctic vascular plants. <i>Polar Biology</i> , 2018, 41, 1973-1982.	0.5	33
43	Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7863-E7870.	3.3	401
44	Is the Success of Plant Invasions the Result of Rapid Adaptive Evolution in Seed Traits? Evidence from a Latitudinal Rainfall Gradient. <i>Frontiers in Plant Science</i> , 2018, 9, 208.	1.7	36
45	Hormonal and physiological changes driven by fungal endophytes increase Antarctic plant performance under UV-B radiation. <i>Fungal Ecology</i> , 2018, 34, 76-82.	0.7	42
46	The effect of future climate change on the conservation of <i>Chloraea disoides</i> Lindl. (Orchidaceae) in Chile. <i>Revista Brasileira De Botanica</i> , 2017, 40, 353-360.	0.5	6
47	Asymmetric responses to simulated global warming by populations of <i>Colobanthus quitensis</i> along a latitudinal gradient. <i>PeerJ</i> , 2017, 5, e3718.	0.9	21
48	Biological Interactions and Simulated Climate Change Modulates the Ecophysiological Performance of <i>Colobanthus quitensis</i> in the Antarctic Ecosystem. <i>PLoS ONE</i> , 2016, 11, e0164844.	1.1	38
49	Isolation and characterization of an Antarctic Flavobacterium strain with agarase and alginate lyase activities. <i>Polish Polar Research</i> , 2016, 37, 403-419.	0.9	7
50	Root-endophytes improve the ecophysiological performance and production of an agricultural species under drought condition. <i>AoB PLANTS</i> , 2016, 8, .	1.2	57
51	Woody climbers show greater population genetic differentiation than trees: Insights into the link between ecological traits and diversification. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 2736-2745.	1.1	5
52	Boron stress response and accumulation potential of the extremely tolerant species <i>Puccinellia frigida</i> . <i>Journal of Hazardous Materials</i> , 2016, 317, 476-484.	6.5	28
53	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.	1.2	1
54	Adaptive phenotypic plasticity and competitive ability deployed under a climate change scenario may promote the invasion of <i>Poa annua</i> in Antarctica. <i>Biological Invasions</i> , 2016, 18, 603-618.	1.2	31

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55	Nurse effect and soil microorganisms are key to improve the establishment of native plants in a semiarid community. <i>Journal of Arid Environments</i> , 2016, 126, 54-61.	1.2	30
56	Positive interactions by cushion plants in high mountains: fact or artifact?. <i>Journal of Plant Ecology</i> , 2016, 9, 117-123.	1.2	9
57	<i>Poa annua</i> L. in the maritime Antarctic: an overview. <i>Polar Record</i> , 2015, 51, 637-643.	0.4	50
58	A recolonization record of the invasive <i>Poa annua</i> in Paradise Bay, Antarctic Peninsula: modeling of the potential spreading risk. <i>Polar Biology</i> , 2015, 38, 1091-1096.	0.5	13
59	Biological invasions in terrestrial Antarctica: what is the current status and can we respond?. <i>Biodiversity and Conservation</i> , 2015, 24, 1031-1055.	1.2	124
60	Fungal endophytes associated with roots of nurse cushion species have positive effects on native and invasive beneficiary plants in an alpine ecosystem. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2015, 17, 218-226.	1.1	34
61	Hongos endófitos antárticos como herramienta para la reintroducción de especies nativas en zonas áridas. <i>Bosque</i> , 2014, 35, 235-239.	0.1	14
62	Induced twining in <i>Ipomoea purpurea</i> (L.) Roth.: response threshold and induction by volatiles and snail damage. <i>Gayana - Botanica</i> , 2014, 71, 181-187.	0.3	5
63	Assessing the importance of human activities for the establishment of the invasive <i>Poa annua</i> in Antarctica. <i>Polar Research</i> , 2014, 33, 21425.	1.6	35
64	Genetic diversity of <i>Colobanthus quitensis</i> across the Drake Passage. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2014, 12, 147-150.	0.4	8
65	Antarctic macrolichen modifies microclimate and facilitates vascular plants in the maritime Antarctica – a reply to Casanova et al. (2014). <i>Journal of Vegetation Science</i> , 2014, 25, 606-608.	1.1	3
66	Antarctic Ecology One Century after the Conquest of the South Pole: How Much Have We Advanced?. <i>BioScience</i> , 2014, 64, 593-600.	2.2	2
67	Quinoa biodiversity and sustainability for food security under climate change. A review. <i>Agronomy for Sustainable Development</i> , 2014, 34, 349-359.	2.2	244
68	Positive interactions between the lichen <i>Ulex antarctica</i> (<i>Ulex</i> armeliaceae) and the native flora in Maritime Antarctica. <i>Journal of Vegetation Science</i> , 2013, 24, 463-472.	1.1	25
69	Seabirds modify El Niño effects on tree growth in a southern Pacific island. <i>Ecology</i> , 2013, 94, 2415-2425.	1.5	10
70	Ecophysiological plasticity and local differentiation help explain the invasion success of <i>Taraxacum officinale</i> (dandelion) in South America. <i>Ecography</i> , 2013, 36, 718-730.	2.1	33
71	Trends in Antarctic ecological research in Latin America shown by publications in international journals. <i>Polar Research</i> , 2013, 32, 19993.	1.6	1
72	Is Physiological Performance a Good Predictor for Fitness? Insights from an Invasive Plant Species. <i>PLoS ONE</i> , 2013, 8, e76432.	1.1	23

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73	WITHIN-POPULATION GENETIC DIVERSITY OF CLIMBING PLANTS AND TREES IN A TEMPERATE FOREST IN CENTRAL CHILE. <i>Gayana - Botanica</i> , 2013, 70, 36-43.	0.3	5
74	Latitudinal Patterns in Phenotypic Plasticity and Fitness-Related Traits: Assessing the Climatic Variability Hypothesis (CVH) with an Invasive Plant Species. <i>PLoS ONE</i> , 2012, 7, e47620.	1.1	117
75	Occurrence of the Non-Native Annual Bluegrass on the Antarctic Mainland and Its Negative Effects on Native Plants. <i>Conservation Biology</i> , 2012, 26, 717-723.	2.4	91
76	Respuestas antioxidantes en dos ecotipos de <i>Colobanthus quitensis</i> (Caryophyllaceae) expuestos a alta radiación UV-B y baja temperatura. <i>Revista Chilena De Historia Natural</i> , 2012, 85, 419-433.	0.5	10
77	Impact of mycorrhizae and irrigation in the survival of seedlings of <i>Pinus radiata</i> D. Don subject to drought. <i>Gayana - Botanica</i> , 2012, 69, 296-304.	0.3	6
78	Plasticidad fenotípica en dos poblaciones antárticas de <i>Colobanthus quitensis</i> (Caryophyllaceae) bajo un escenario simulado de cambio global. <i>Gayana - Botanica</i> , 2012, 69, 152-160.	0.3	19
79	Can a breakdown in competition-colonization tradeoffs help explain the success of exotic species in the California flora?. <i>Oikos</i> , 2012, 121, 389-395.	1.2	18
80	The trade-off between cold resistance and growth determines the <i>Nothofagus pumilio</i> treeline. <i>Plant Ecology</i> , 2012, 213, 133-142.	0.7	30
81	Higher plasticity in ecophysiological traits enhances the performance and invasion success of <i>Taraxacum officinale</i> (dandelion) in alpine environments. <i>Biological Invasions</i> , 2012, 14, 21-33.	1.2	71
82	Linking Climatic Variability with Spatial Performance in Two Varieties of Quinoa Distributed in a Semi-Arid Zone. <i>American Journal of Plant Sciences</i> , 2012, 03, 1682-1687.	0.3	2
83	The conquest of the South Pole: Importance and lessons for the present. <i>Revista Chilena De Historia Natural</i> , 2012, 85, 365-367.	0.5	0
84	Functional differences in response to drought in the invasive <i>Taraxacum officinale</i> from native and introduced alpine habitat ranges. <i>Plant Ecology and Diversity</i> , 2011, 4, 37-44.	1.0	24
85	Variation in salinity tolerance of four lowland genotypes of quinoa (<i>Chenopodium quinoa</i> Willd.) as assessed by growth, physiological traits, and sodium transporter gene expression. <i>Plant Physiology and Biochemistry</i> , 2011, 49, 1333-1341.	2.8	154
86	Sphericity and smaller pollen-size are better represented in introduced rather than native plant species. <i>Gayana - Botanica</i> , 2011, 68, 330-332.	0.3	1
87	Phenotypic plasticity and performance of <i>Taraxacum officinale</i> (dandelion) in habitats of contrasting environmental heterogeneity. <i>Biological Invasions</i> , 2010, 12, 2277-2284.	1.2	44
88	Variación altitudinal de los atributos morfo-fisiológicos en dos especies de plantas alto-andinas y sus implicancias contra la fotoinhibición. <i>Gayana - Botanica</i> , 2010, 67, .	0.3	17
89	Insights into the relationship between the <i>h</i> -index and self-citations. <i>Journal of the Association for Information Science and Technology</i> , 2009, 60, 1283-1285.	2.6	24
90	Does global warming induce segregation among alien and native beetle species in a mountain-top?. <i>Ecological Research</i> , 2009, 24, 31-36.	0.7	17

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91	Small-scale disturbances spread along trophic chains: leaf-cutting ant nests, plants, aphids, and tending ants. <i>Ecological Research</i> , 2009, 24, 139-145.	0.7	14
92	Alpine dandelions originated in the native and introduced range differ in their responses to environmental constraints. <i>Ecological Research</i> , 2009, 24, 175-183.	0.7	22
93	Do heat and smoke increase emergence of exotic and native plants in the matorral of central Chile?. <i>Acta Oecologica</i> , 2009, 35, 335-340.	0.5	27
94	Facilitation of the non-native <i>Taraxacum officinale</i> by native nurse cushion species in the high Andes of central Chile: are there differences between nurses?. <i>Functional Ecology</i> , 2008, 22, 148-156.	1.7	59
95	Positive interactions among plant species for pollinator service: assessing the "magnet species" concept with invasive species. <i>Oikos</i> , 2008, 117, 1833-1839.	1.2	110
96	Water availability limits tolerance of apical damage in the Chilean tarweed <i>Madia sativa</i> . <i>Acta Oecologica</i> , 2008, 34, 104-110.	0.5	30
97	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. <i>Arctic, Antarctic, and Alpine Research</i> , 2007, 39, 229-236.	0.4	192
98	Leaf litter of <i>Kageneckia angustifolia</i> D. Don (Rosaceae) inhibits seed germination in sclerophyllous montane woodlands of central Chile. <i>Plant Ecology</i> , 2007, 190, 13-22.	0.7	34
99	Leaf trichome density may explain herbivory patterns of <i>Actinote</i> sp. (Lepidoptera: Acraeidae) on <i>Liabum amandonii</i> (Asteraceae) in a montane humid forest (Nor Yungas, Bolivia). <i>Acta Oecologica</i> , 2006, 30, 147-150.	0.5	26
100	EFFECT OF DENSITY AND FLOWER SIZE ON THE REPRODUCTIVE SUCCESS OF <i>NOTHOSCORDUM GRAMINUM</i> (ALLIACEAE). <i>Gayana - Botanica</i> , 2006, 63, 93.	0.3	8
101	Positive interactions between alpine plant species and the nurse cushion plant <i>Laretia acaulis</i> do not increase with elevation in the Andes of central Chile. <i>New Phytologist</i> , 2006, 169, 59-69.	3.5	284
102	Interactive Effects of Leaf Damage, Light Intensity and Support Availability on Chemical Defenses and Morphology of a Twining Vine. <i>Journal of Chemical Ecology</i> , 2006, 33, 95-103.	0.9	18
103	Cushion Plants as Microclimatic Shelters for Two Ladybird Beetles Species in Alpine Zone of Central Chile. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 224-227.	0.4	36
104	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, .	0.5	17
105	Leaf damage induces twining in a climbing plant. <i>New Phytologist</i> , 2005, 167, 385-390.	3.5	16
106	Slope aspect influences plant association patterns in the Mediterranean matorral of central Chile. <i>Journal of Arid Environments</i> , 2005, 62, 93-108.	1.2	122
107	Nurse effect of the native cushion plant <i>Azorella monantha</i> on the invasive non-native <i>Taraxacum officinale</i> in the high-Andes of central Chile. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2005, 7, 217-226.	1.1	143
108	Positive associations between macroalgal species in a rocky intertidal zone and their effects on the physiological performance of <i>Ulva lactuca</i> . <i>Marine Ecology - Progress Series</i> , 2005, 292, 173-180.	0.9	33

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109	Nurse effect of <i>Bolax gummifera</i> cushion plants in the alpine vegetation of the Chilean Patagonian Andes. <i>Journal of Vegetation Science</i> , 2002, 13, 547.	1.1	13
110	Efectos de la planta en cojín <i>Oreopolus glacialis</i> (Rubiaceae) sobre la riqueza y diversidad de especies en una comunidad alto-andina de Chile central. <i>Revista Chilena De Historia Natural</i> , 2002, 75, 757.	0.5	31
111	Nurse effect of <i>Bolax gummifera</i> cushion plants in the alpine vegetation of the Chilean Patagonian Andes. <i>Journal of Vegetation Science</i> , 2002, 13, 547-554.	1.1	156
112	Ecophysiological basis of the Jack-and-Master strategy: <i>Taraxacum officinale</i> (dandelion) as an example of a successful invader. <i>Journal of Plant Ecology</i> , 0, , rtw121.	1.2	4
113	Variation in phenology and overall performance traits can help to explain the plant invasion process amongst Mediterranean ecosystems. <i>NeoBiota</i> , 0, 41, 67-89.	1.0	11
114	Increasing impacts by Antarctica's most widespread invasive plant species as result of direct competition with native vascular plants. <i>NeoBiota</i> , 0, 51, 19-40.	1.0	26