

Mara de La Luz Mora

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119
papers

3,173
citations

32
h-index

51
g-index

123
ext. papers

3,760
ext. citations

4.7
avg, IF

5.26
L-index

#	Paper	IF	Citations
119	Isolation of culturable phosphobacteria with both phytate-mineralization and phosphate-solubilization activity from the rhizosphere of plants grown in a volcanic soil. <i>Biology and Fertility of Soils</i> , 2008 , 44, 1025-1034	6.1	165
118	Current and future biotechnological applications of bacterial phytases and phytase-producing bacteria. <i>Microbes and Environments</i> , 2008 , 23, 182-91	2.6	116
117	Natural nanoclays: applications and future trends from a Chilean perspective. <i>Clay Minerals</i> , 2009 , 44, 161-176.	6.3	110
116	Differential tolerance to Mn toxicity in perennial ryegrass genotypes: involvement of antioxidative enzymes and root exudation of carboxylates. <i>Plant and Soil</i> , 2009 , 320, 79-89	4.2	93
115	Smart Fertilizers as a Strategy for Sustainable Agriculture. <i>Advances in Agronomy</i> , 2018 , 147, 119-157	7.7	87
114	Organic phosphorus in the terrestrial environment: a perspective on the state of the art and future priorities. <i>Plant and Soil</i> , 2018 , 427, 191-208	4.2	87
113	Nanoclays from an Andisol: Extraction, properties and carbon stabilization. <i>Geoderma</i> , 2011 , 161, 159-168.	6.7	87
112	Soil aluminium availability in Andisols of southern Chile and its effect on forage production and animal metabolism. <i>Soil Use and Management</i> , 2006 , 22, 95-101	3.1	78
111	Molecular and physiological strategies to increase aluminum resistance in plants. <i>Molecular Biology Reports</i> , 2012 , 39, 2069-79	2.8	74
110	Selenium uptake and its influence on the antioxidative system of white clover as affected by lime and phosphorus fertilization. <i>Plant and Soil</i> , 2008 , 303, 139-149	4.2	73
109	Operational factors and nutrient effects on activated sludge treatment of Pinus radiata kraft mill wastewater. <i>Bioresource Technology</i> , 2002 , 83, 131-8	11	68
108	Silicon in vascular plants: uptake, transport and its influence on mineral stress under acidic conditions. <i>Planta</i> , 2015 , 242, 23-37	4.7	64
107	Endophytic bacteria from selenium-supplemented wheat plants could be useful for plant-growth promotion, biofortification and Gaeumannomyces graminis biocontrol in wheat production. <i>Biology and Fertility of Soils</i> , 2014 , 50, 983-990	6.1	62
106	Plant growth-promoting rhizobacteria associated with ancient clones of creosote bush (Larrea tridentata). <i>Microbial Ecology</i> , 2012 , 64, 1008-17	4.4	62
105	Identification of Φ propeller phytase-encoding genes in culturable Paenibacillus and Bacillus spp. from the rhizosphere of pasture plants on volcanic soils. <i>FEMS Microbiology Ecology</i> , 2011 , 75, 163-72	4.3	62
104	Silicon-Mediated Alleviation of Aluminum Toxicity by Modulation of Al/Si Uptake and Antioxidant Performance in Ryegrass Plants. <i>Frontiers in Plant Science</i> , 2017 , 8, 642	6.2	61
103	Manganese Supply and pH Influence Growth, Carboxylate Exudation and Peroxidase Activity of Ryegrass and White Clover. <i>Journal of Plant Nutrition</i> , 2007 , 30, 253-270	2.3	55

102	Activity stabilization of <i>Aspergillus niger</i> and <i>Escherichia coli</i> phytases immobilized on allophanic synthetic compounds and montmorillonite nanoclays. <i>Bioresource Technology</i> , 2011 , 102, 9360-7	11	54
101	Studies of the surface charge of amorphous aluminosilicates using surface complexation models. <i>Journal of Colloid and Interface Science</i> , 2005 , 292, 160-70	9.3	54
100	Effect of phosphorus addition on total and alkaline phosphomonoesterase-harboring bacterial populations in ryegrass rhizosphere microsites. <i>Biology and Fertility of Soils</i> , 2016 , 52, 1007-1019	6.1	53
99	Selenobacteria selected from the rhizosphere as a potential tool for Se biofortification of wheat crops. <i>Biology and Fertility of Soils</i> , 2013 , 49, 175-185	6.1	51
98	Phytases and Phytase-Labile Organic Phosphorus in Manures and Soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 916-954	11.1	49
97	Endophytic Bacterial Communities Associated with Roots and Leaves of Plants Growing in Chilean Extreme Environments. <i>Scientific Reports</i> , 2019 , 9, 4950	4.9	44
96	Adsorption behavior of 2,4-dichlorophenol and pentachlorophenol in an allophanic soil. <i>Chemosphere</i> , 2007 , 67, 1354-60	8.4	44
95	Modifications to the Freundlich equation to describe anion sorption over a large range and to describe competition between pairs of ions. <i>European Journal of Soil Science</i> , 2005 , 56, 601-606	3.4	40
94	Aluminum-tolerant bacteria improve the plant growth and phosphorus content in ryegrass grown in a volcanic soil amended with cattle dung manure. <i>Applied Soil Ecology</i> , 2017 , 115, 19-26	5	39
93	Rhizobacterial Community Structures Associated with Native Plants Grown in Chilean Extreme Environments. <i>Microbial Ecology</i> , 2016 , 72, 633-46	4.4	39
92	Effect of liming and gypsum on soil chemistry, yield, and mineral composition of ryegrass grown in an acidic Andisol. <i>Communications in Soil Science and Plant Analysis</i> , 1999 , 30, 1251-1266	1.5	37
91	Short-term Aluminum Stress Differentially Affects the Photochemical Efficiency of Photosystem II in Highbush Blueberry Genotypes. <i>Journal of the American Society for Horticultural Science</i> , 2009 , 134, 14-21	2.3	35
90	Occurrence of Soil Fungi in Antarctic Pristine Environments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 28	5.8	34
89	Effects of lime and gypsum on pasture growth and composition on an acid Andisol in Chile, South America. <i>Communications in Soil Science and Plant Analysis</i> , 2002 , 33, 2069-2081	1.5	34
88	Bacterial alkaline phosphomonoesterase in the rhizospheres of plants grown in Chilean extreme environments. <i>Biology and Fertility of Soils</i> , 2016 , 52, 763-773	6.1	33
87	ACCD-producing rhizobacteria from an Andean Altiplano native plant (<i>Parastrephia quadrangularis</i>) and their potential to alleviate salt stress in wheat seedlings. <i>Applied Soil Ecology</i> , 2019 , 136, 184-190	5	32
86	Long-term Aluminum Exposure Effects on Physiological and Biochemical Features of Highbush Blueberry Cultivars. <i>Journal of the American Society for Horticultural Science</i> , 2010 , 135, 212-222	2.3	32
85	Microbial Community Composition in Take-All Suppressive Soils. <i>Frontiers in Microbiology</i> , 2018 , 9, 2198	5.7	32

84	Chemical nature of residual phosphorus in Andisols. <i>Geoderma</i> , 2016 , 271, 27-31	6.7	31
83	Differential superoxide dismutase expression in ryegrass cultivars in response to short term aluminium stress. <i>Plant and Soil</i> , 2012 , 350, 353-363	4.2	30
82	Early induction of Fe-SOD gene expression is involved in tolerance to Mn toxicity in perennial ryegrass. <i>Plant Physiology and Biochemistry</i> , 2013 , 73, 77-82	5.4	30
81	Catalytic wet peroxide oxidation of phenol over iron or copper oxide-supported allophane clay materials: Influence of catalyst SiO ₂ /Al ₂ O ₃ ratio. <i>Microporous and Mesoporous Materials</i> , 2012 , 162, 189-198	5.3	30
80	Kinetic and thermodynamic study of chlorophenol sorption in an allophanic soil. <i>Chemosphere</i> , 2010 , 78, 86-91	8.4	28
79	Mutual Interactions of Sulfate, Oxalate, Citrate, and Phosphate on Synthetic and Natural Allophanes. <i>Soil Science Society of America Journal</i> , 2006 , 70, 337-346	2.5	28
78	Silicon Improves the Production of High Antioxidant or Structural Phenolic Compounds in Barley Cultivars under Aluminum Stress. <i>Agronomy</i> , 2019 , 9, 388	3.6	27
77	Properties and biotechnological applications of ice-binding proteins in bacteria. <i>FEMS Microbiology Letters</i> , 2016 , 363,	2.9	27
76	Allophanic Soil Adsorption System as a Bleached Kraft Mill Aerobic Effluent Post-Treatment. <i>Water, Air, and Soil Pollution</i> , 2003 , 148, 323-333	2.6	26
75	Effect of cow slurry amendment on atrazine dissipation and bacterial community structure in an agricultural Andisol. <i>Science of the Total Environment</i> , 2010 , 408, 2833-9	10.2	25
74	Screening and Characterization of Potentially Suppressive Soils against under Extensive Wheat Cropping by Chilean Indigenous Communities. <i>Frontiers in Microbiology</i> , 2017 , 8, 1552	5.7	24
73	Improving bioavailability of phosphorous from cattle dung by using phosphatase immobilized on natural clay and nanoclay. <i>Chemosphere</i> , 2012 , 89, 648-55	8.4	24
72	Effect of liquid cow manure on andisol properties and atrazine adsorption. <i>Journal of Environmental Quality</i> , 2008 , 37, 1519-26	3.4	24
71	Describing chlorophenol sorption on variable-charge soil using the triple-layer model. <i>Journal of Colloid and Interface Science</i> , 2005 , 292, 171-8	9.3	24
70	Influence of nitrogen fertilisation on pasture culturable rhizobacteria occurrence and the role of environmental factors on their potential PGPR activities. <i>Biology and Fertility of Soils</i> , 2011 , 47, 875-885	6.1	23
69	Adding worms during composting of organic waste with red mud and fly ash reduces CO emissions and increases plant available nutrient contents. <i>Journal of Environmental Management</i> , 2018 , 222, 207-215	7.9	22
68	Phytate addition to soil induces changes in the abundance and expression of <i>Bacillus propeller</i> phytase genes in the rhizosphere. <i>FEMS Microbiology Ecology</i> , 2013 , 83, 352-60	4.3	22
67	Selenium distribution in ryegrass and its antioxidant role as affected by sulfur fertilization. <i>Plant and Soil</i> , 2006 , 285, 187-195	4.2	22

66	Catalytic behaviour of acid phosphatase immobilized on natural supports in the presence of manganese or molybdenum. <i>Geoderma</i> , 2008 , 145, 77-83	6.7	21
65	Manganese toxicity and UV-B radiation differentially influence the physiology and biochemistry of highbush blueberry (<i>Vaccinium corymbosum</i>) cultivars. <i>Functional Plant Biology</i> , 2014 , 41, 156-167	2.7	20
64	Aluminium toxicity and phosphate deficiency activates antioxidant systems and up-regulates expression of phosphate transporters gene in ryegrass (<i>Lolium perenne</i> L.) plants. <i>Plant Physiology and Biochemistry</i> , 2018 , 130, 445-454	5.4	19
63	Optimization of wheat straw co-composting for carrier material development. <i>Waste Management</i> , 2019 , 98, 37-49	8.6	19
62	Sorption of inositol hexaphosphate on desert soils. <i>Geoderma</i> , 2014 , 232-234, 573-580	6.7	19
61	Photosynthetic impairment caused by manganese toxicity and associated antioxidative responses in perennial ryegrass. <i>Crop and Pasture Science</i> , 2013 , 64, 696	2.2	19
60	Dynamics of phosphorus and phytate-utilizing bacteria during aerobic degradation of dairy cattle dung. <i>Chemosphere</i> , 2009 , 74, 325-31	8.4	19
59	Effect of calcitic and dolomitic lime on physicochemical properties of a Chilean Andisol. <i>Communications in Soil Science and Plant Analysis</i> , 1999 , 30, 427-439	1.5	19
58	Phosphobacteria inoculation enhances the benefit of P fertilization on <i>Lolium perenne</i> in soils contrasting in P availability. <i>Soil Biology and Biochemistry</i> , 2019 , 136, 107516	7.5	17
57	Sodium silicate and calcium silicate differentially affect silicon and aluminium uptake, antioxidant performance and phenolics metabolism of ryegrass in an acid Andisol. <i>Crop and Pasture Science</i> , 2018 , 69, 205	2.2	16
56	Phosphorus and Nitrogen Fertilization Effect on Phosphorus Uptake and Phosphatase Activity in Ryegrass and Tall Fescue Grown in a Chilean Andisol. <i>Soil Science</i> , 2011 , 176, 245-251	0.9	16
55	Effect of rhizobacterial consortia from undisturbed arid- and agro-ecosystems on wheat growth under different conditions. <i>Letters in Applied Microbiology</i> , 2017 , 64, 158-163	2.9	15
54	Efficient and selective removal of Se and As mixed contaminants from aqueous media by montmorillonite-nanoscale zero valent iron nanocomposite. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123639	12.8	15
53	In-series columns adsorption performance of Kraft mill wastewater pollutants onto volcanic soil. <i>Chemosphere</i> , 2005 , 60, 870-8	8.4	14
52	Understanding the Strategies to Overcome Phosphorus-Deficiency and Aluminum-Toxicity by Ryegrass Endophytic and Rhizosphere Phosphobacteria. <i>Frontiers in Microbiology</i> , 2018 , 9, 1155	5.7	13
51	Influence of selenite on selenium uptake, differential antioxidant performance and gene expression of sulfate transporters in wheat genotypes. <i>Plant and Soil</i> , 2013 , 369, 47-59	4.2	13
50	Phosphorus nutrition alleviates manganese toxicity in <i>Lolium perenne</i> and <i>Trifolium repens</i> . <i>Journal of Plant Nutrition and Soil Science</i> , 2011 , 174, 210-219	2.3	13
49	Detection of aluminium tolerance plasmids and microbial diversity in the rhizosphere of plants grown in acidic volcanic soil. <i>European Journal of Soil Biology</i> , 2010 , 46, 255-263	2.9	13

48	Mn Toxicity Differentially Affects Physiological and Biochemical Features in Highbush Blueberry (<i>Vaccinium corymbosum</i> L.) Cultivars. <i>Journal of Soil Science and Plant Nutrition</i> , 2020 , 20, 795-805	3.2	13
47	Effect of dairy manure rate and the stabilization time of amended soils on atrazine degradation. <i>Chemosphere</i> , 2009 , 77, 785-90	8.4	12
46	Influence of Sulfate Concentration in Mineral Solution on Ryegrass Grown at Different pH and Aluminum Levels. <i>Journal of Plant Nutrition</i> , 2005 , 28, 1117-1132	2.3	12
45	Fertilizer P Uptake Determined by Soil P Fractionation and Phosphatase Activity. <i>Journal of Soil Science and Plant Nutrition</i> , 2019 , 19, 166-174	3.2	12
44	Organic matter stabilization in two Andisols of contrasting age under temperate rain forest. <i>Biology and Fertility of Soils</i> , 2013 , 49, 681-689	6.1	11
43	Kraft mill sludge to improve vegetal production in Chilean Andisol. <i>Water Science and Technology</i> , 2007 , 55, 31-7	2.2	11
42	Nitrogen Losses under Different Cattle Grazing Frequencies and Intensities in a Volcanic Soil of Southern Chile. <i>Chilean Journal of Agricultural Research</i> , 2010 , 70,	1.9	11
41	Description of mutual interactions between silicon and phosphorus in Andisols by mathematical and mechanistic models. <i>Chemosphere</i> , 2015 , 131, 164-70	8.4	10
40	In Situ Cultivation Approach to Increase the Culturable Bacterial Diversity in the Rhizobiome of Plants. <i>Journal of Soil Science and Plant Nutrition</i> , 2020 , 20, 1411-1426	3.2	10
39	A combination of cellular automata and agent-based models for simulating the root surface colonization by bacteria. <i>Ecological Modelling</i> , 2012 , 247, 1-10	3	10
38	Silicon Modulates the Production and Composition of Phenols in Barley under Aluminum Stress. <i>Agronomy</i> , 2020 , 10, 1138	3.6	10
37	Dissolved phosphorus composition of grassland leachates following application of dairy-slurry size fractions. <i>Journal of Plant Nutrition and Soil Science</i> , 2012 , 175, 78-85	2.3	9
36	Changes in bacterial communities by post-emergent herbicides in an Andisol fertilized with urea as revealed by DGGE. <i>Applied Soil Ecology</i> , 2016 , 101, 141-151	5	9
35	MOLYBDENUM AVAILABILITY IN ANDISOLS AND ITS EFFECT ON BIOLOGICAL PARAMETERS OF SOIL AND RED CLOVER (<i>TRIFOLIUM PRATENSE</i> L.). <i>Soil Science</i> , 2007 , 172, 913-924	0.9	8
34	Assessment of phosphorus status influenced by Al and Fe compounds in volcanic grassland soils. <i>Journal of Soil Science and Plant Nutrition</i> , 2016 , 0-0	3.2	8
33	Synergistic and Antagonistic Effects of Poultry Manure and Phosphate Rock on Soil P Availability, Ryegrass Production, and P Uptake. <i>Agronomy</i> , 2019 , 9, 191	3.6	7
32	A novel phosphorus biofertilization strategy using cattle manure treated with phytase-βanoclay complexes. <i>Biology and Fertility of Soils</i> , 2013 , 50, 583	6.1	7
31	UREASE ACTIVITY AND NITROGEN MINERALIZATION KINETICS AS AFFECTED BY TEMPERATURE AND UREA INPUT RATE IN SOUTHERN CHILEAN ANDISOLS. <i>Revista De La Ciencia Del Suelo Y Nutricion Vegetal</i> , 2009 , 9,		7

30	KINETICS OF MOLYBDATE AND PHOSPHATE SORPTION BY SOME CHILEAN ANDISOLS. <i>Revista De La Ciencia Del Suelo Y Nutricion Vegetal</i> , 2009 , 9,		7
29	Soil Retention Capacity of Phenols from Biologically Pre-Treated Kraft Mill Wastewater. <i>Water, Air, and Soil Pollution</i> , 2005 , 163, 325-339	2.6	7
28	Endophytic selenobacteria and arbuscular mycorrhizal fungus for Selenium biofortification and <i>Gaeumannomyces graminis</i> biocontrol. <i>Journal of Soil Science and Plant Nutrition</i> , 2018 , 0-0	3.2	7
27	Prospecting intercropping between subterranean clover and grapevine as potential strategy for improving grapevine performance. <i>Current Plant Biology</i> , 2019 , 19, 100110	3.3	6
26	Expression analysis and functional characterization of two PHT1 family phosphate transporters in ryegrass. <i>Planta</i> , 2019 , 251, 6	4.7	6
25	Soil available P, soil organic carbon and aggregation as affected by long-term poultry manure application to Andisols under pastures in Southern Chile. <i>Geoderma Regional</i> , 2020 , 21, e00271	2.7	5
24	Urea Fertilizer and pH Influence on Sorption Process of Flumetsulam and MCPA Acidic Herbicides in a Volcanic Soil. <i>Journal of Environmental Quality</i> , 2016 , 45, 323-30	3.4	5
23	MOVEMENT OF N0(3)-N AND NH4-N IN AN ANDISOL AND ITS INFLUENCE ON RYEGRASS PRODUCTION IN A SHORT TERM STUDY. <i>Revista De La Ciencia Del Suelo Y Nutricion Vegetal</i> , 2007 , 7,		5
22	Sulphate fertilization ameliorates long-term aluminum toxicity symptoms in perennial ryegrass (<i>Lolium perenne</i>). <i>Plant Physiology and Biochemistry</i> , 2014 , 83, 88-99	5.4	4
21	CHLSOC: the Chilean Soil Organic Carbon database, a multi-institutional collaborative effort. <i>Earth System Science Data</i> , 2020 , 12, 457-468	10.5	4
20	Utilization of Inorganic Nanoparticles and Biochar as Additives of Agricultural Waste Composting: Effects of End-Products on Plant Growth, C and Nutrient Stock in Soils from a Mediterranean Region. <i>Agronomy</i> , 2021 , 11, 767	3.6	4
19	Engineering Multigenerational Host-Modulated Microbiota against Soilborne Pathogens in Response to Global Climate Change. <i>Biology</i> , 2021 , 10,	4.9	4
18	Impact of Cold-Storage and UV-C Irradiation Postharvest Treatments on Quality and Antioxidant Properties of Fruits from Blueberry Cultivars Grown in Southern Chile. <i>Journal of Soil Science and Plant Nutrition</i> , 2020 , 20, 1751-1758	3.2	3
17	Role of Molybdenum on Yield, Quality, and Photosynthetic Efficiency of White Clover as a Result of the Interaction with Liming and Different Phosphorus Rates in Andisols. <i>Communications in Soil Science and Plant Analysis</i> , 2012 , 43, 2342-2357	1.5	3
16	Biological Crusts to Increase Soil Carbon Sequestration: New Challenges in a New Environment. <i>Biology</i> , 2021 , 10,	4.9	3
15	Efficient Biocontrol of <i>Gaeumannomyces graminis</i> var. <i>Tritici</i> in Wheat: Using Bacteria Isolated from Suppressive Soils. <i>Agronomy</i> , 2021 , 11, 2008	3.6	2
14	Phosphorus efficiency modulates phenol metabolism in wheat genotypes. <i>Journal of Soil Science and Plant Nutrition</i> , 2018 , 0-0	3.2	2
13	Formation, properties and reactivity of coprecipitates and organomineral complexes in soil environments. <i>Journal of Soil Science and Plant Nutrition</i> , 2017 , 0-0	3.2	1

12	PHOSPHORUS-MOLYBDENUM RELATIONSHIP IN SOIL AND RED CLOVER (<i>Trifolium pratense</i> L.) ON AN ACID ANDISOL. <i>Revista De La Ciencia Del Suelo Y Nutricion Vegetal</i> , 2010 , 10,		1
11	Effect Of pH, Phosphate and/or Malate on Sulfate Sorption on Andisols. <i>Revista De La Ciencia Del Suelo Y Nutricion Vegetal</i> , 2007 , 7,		1
10	Manganese and molybdenum affect acid phosphatases from potatoes. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2007 , 57, 65-73	1.1	1
9	Physiological and molecular insights involved in silicon uptake and transport in ryegrass. <i>Plant Physiology and Biochemistry</i> , 2021 , 163, 308-316	5.4	1
8	Citrus Residue Enhances the Effectiveness of Beef Cattle Manure Improving the Phosphorus Availability in Acidic Andisol. <i>Communications in Soil Science and Plant Analysis</i> , 1-15	1.5	1
7	Assessment of the combined effects of beef cattle manure and lemon peel waste on soil-plant biochemical properties and phosphorus uptake by ryegrass. <i>Applied Soil Ecology</i> , 2022 , 169, 104217	5	1
6	Interaction Between Silicon and Arbuscular Mycorrhizal Symbiosis: an Ecologically Sustainable Tool to Improve Crop Fitness Under a Drought Scenario?. <i>Journal of Soil Science and Plant Nutrition</i> , 1	3.2	0
5	Describing Phosphorus Sorption Processes on Volcanic Soil in the Presence of Copper or Silver Engineered Nanoparticles. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 373	2.4	0
4	Boron and Zinc Diminish Grey Necrosis Incidence by the Promotion of Desirable Microorganisms on Hazelnut Orchards. <i>Agronomy</i> , 2022 , 12, 868	3.6	0
3	Phosphorus fertiliser source determines the allocation of root-derived organic carbon to soil organic matter fractions. <i>Soil Biology and Biochemistry</i> , 2022 , 167, 108614	7.5	0
2	Research for development in the 21st century. <i>Geoderma</i> , 2020 , 378, 114558	6.7	
1	Carbon Mineralization Controls in Top- and Subsoil Horizons of Two Andisols Under Temperate Old-Growth Rain Forest. <i>Journal of Soil Science and Plant Nutrition</i> , 2021 , 21, 780-790	3.2	