Caravaca Ballester

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95
papers

4,747
citations

40
h-index

9-index

5,196
ext. papers

5,196
ext. citations

5,34
L-index

#	Paper	IF	Citations
95	Induction of antioxidant enzymes is involved in the greater effectiveness of a PGPR versus AM fungi with respect to increasing the tolerance of lettuce to severe salt stress. <i>Environmental and Experimental Botany</i> , 2009 , 65, 245-252	5.9	273
94	Plant-growth-promoting rhizobacteria and arbuscular mycorrhizal fungi modify alleviation biochemical mechanisms in water-stressed plants. <i>Functional Plant Biology</i> , 2008 , 35, 141-151	2.7	250
93	Agricultural use of digestate for horticultural crop production and improvement of soil properties. <i>European Journal of Agronomy</i> , 2012 , 43, 119-128	5	178
92	Soil microbial biomass and activity under different agricultural management systems in a semiarid Mediterranean agroecosystem. <i>Soil and Tillage Research</i> , 2010 , 109, 110-115	6.5	168
91	Land use in relation to soil chemical and biochemical properties in a semiarid Mediterranean environment. <i>Soil and Tillage Research</i> , 2002 , 68, 23-30	6.5	155
90	No-tillage, crop residue additions, and legume cover cropping effects on soil quality characteristics under maize in Patzcuaro watershed (Mexico). <i>Soil and Tillage Research</i> , 2003 , 72, 65-73	6.5	129
89	Soil structural stability and erosion rates influenced by agricultural management practices in a semi-arid Mediterranean agro-ecosystem. <i>Soil Use and Management</i> , 2012 , 28, 571-579	3.1	123
88	Changes in soil enzyme activity, fertility, aggregation and C sequestration mediated by conservation tillage practices and water regime in a maize field. <i>Applied Soil Ecology</i> , 2005 , 30, 11-20	5	118
87	Contribution of Pseudomonas mendocina and Glomus intraradices to aggregate stabilization and promotion of biological fertility in rhizosphere soil of lettuce plants under field conditions. <i>Soil Use and Management</i> , 2006 , 22, 298-304	3.1	118
86	Establishment of shrub species in a degraded semiarid site after inoculation with native or allochthonous arbuscular mycorrhizal fungi. <i>Applied Soil Ecology</i> , 2003 , 22, 103-111	5	118
85	Interactions between a plant growth-promoting rhizobacterium, an AM fungus and a phosphate-solubilising fungus in the rhizosphere of Lactuca sativa. <i>Applied Soil Ecology</i> , 2007 , 35, 480-48	87	115
84	Soil enzyme activities suggest advantages of conservation tillage practices in sorghum cultivation under subtropical conditions. <i>Geoderma</i> , 2005 , 129, 178-185	6.7	114
83	An AM fungus and a PGPR intensify the adverse effects of salinity on the stability of rhizosphere soil aggregates of Lactuca sativa. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 429-434	7.5	112
82	Antioxidant enzyme activities in shoots from three mycorrhizal shrub species afforested in a degraded semi-arid soil. <i>Physiologia Plantarum</i> , 2003 , 118, 562-570	4.6	106
81	Improvement of rhizosphere aggregate stability of afforested semiarid plant species subjected to mycorrhizal inoculation and compost addition. <i>Geoderma</i> , 2002 , 108, 133-144	6.7	100
80	Use of microbiological indicators for evaluating success in soil restoration after revegetation of a mining area under subtropical conditions. <i>Applied Soil Ecology</i> , 2005 , 30, 3-10	5	99
79	Plant type mediates rhizospheric microbial activities and soil aggregation in a semiarid Mediterranean salt marsh. <i>Geoderma</i> , 2005 , 124, 375-382	6.7	98

(2003-2002)

78	Assessing the effectiveness of mycorrhizal inoculation and soil compost addition for enhancing reafforestation with Olea europaea subsp. sylvestris through changes in soil biological and physical parameters. <i>Applied Soil Ecology</i> , 2002 , 20, 107-118	5	90
77	Re-establishment of Retama sphaerocarpa as a target species for reclamation of soil physical and biological properties in a semi-arid Mediterranean area. <i>Forest Ecology and Management</i> , 2003 , 182, 49-5	5 8 9	88
76	Aggregate stability changes after organic amendment and mycorrhizal inoculation in the afforestation of a semiarid site with Pinus halepensis. <i>Applied Soil Ecology</i> , 2002 , 19, 199-208	5	86
75	Organic matter, nutrient contents and cation exchange capacity in fine fractions from semiarid calcareous soils. <i>Geoderma</i> , 1999 , 93, 161-176	6.7	77
74	Differential modulation of host plant delta13C and delta18O by native and nonnative arbuscular mycorrhizal fungi in a semiarid environment. <i>New Phytologist</i> , 2006 , 169, 379-87	9.8	72
73	The application of an organic amendment modifies the arbuscular mycorrhizal fungal communities colonizing native seedlings grown in a heavy-metal-polluted soil. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 1498-1508	7.5	64
72	Soil sustainability indicators following conservation tillage practices under subtropical maize and bean crops. <i>Soil and Tillage Research</i> , 2007 , 93, 273-282	6.5	64
71	Differential response of delta13C and water use efficiency to arbuscular mycorrhizal infection in two aridland woody plant species. <i>Oecologia</i> , 2003 , 135, 510-5	2.9	64
70	Poultry manure and banana waste are effective biofertilizer carriers for promoting plant growth and soil sustainability in banana crops. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 3092-3095	7.5	62
69	Aggregate stability and carbon characteristics of particle-size fractions in cultivated and forested soils of semiarid Spain. <i>Soil and Tillage Research</i> , 2004 , 78, 83-90	6.5	62
68	Involvement of antioxidant enzyme and nitrate reductase activities during water stress and recovery of mycorrhizal Myrtus communis and Phillyrea angustifolia plants. <i>Plant Science</i> , 2005 , 169, 191-197	5.3	61
67	Survival of inocula and native AM fungi species associated with shrubs in a degraded Mediterranean ecosystem. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 227-233	7.5	58
66	Increased diversity of arbuscular mycorrhizal fungi in a long-term field experiment via application of organic amendments to a semiarid degraded soil. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 4254-63	4.8	51
65	Effect of drought on the stability of rhizosphere soil aggregates of Lactuca sativa grown in a degraded soil inoculated with PGPR and AM fungi. <i>Applied Soil Ecology</i> , 2009 , 42, 160-165	5	51
64	Assessing changes in physical and biological properties in a soil contaminated by oil sludges under semiarid Mediterranean conditions. <i>Geoderma</i> , 2003 , 117, 53-61	6.7	48
63	Comparing the effectiveness of mycorrhizal inoculation and amendment with sugar beet, rock phosphate and Aspergillus niger to enhance field performance of the leguminous shrub Dorycnium pentaphyllum L <i>Applied Soil Ecology</i> , 2004 , 25, 169-180	5	48
62	Changes in rhizosphere microbial activity mediated by native or allochthonous AM fungi in the reafforestation of a Mediterranean degraded environment. <i>Biology and Fertility of Soils</i> , 2005 , 41, 59-68	6.1	46
61	Application of composted urban residue enhanced the performance of afforested shrub species in a degraded semiarid land. <i>Bioresource Technology</i> , 2003 , 90, 65-70	11	45

60	Establishment of two ectomycorrhizal shrub species in a semiarid site after in situ amendment with sugar beet, rock phosphate, and Aspergillus niger. <i>Microbial Ecology</i> , 2005 , 49, 73-82	4.4	44
59	Arbuscular mycorrhizal fungi inoculation mediated changes in rhizosphere bacterial community structure while promoting revegetation in a semiarid ecosystem. <i>Science of the Total Environment</i> , 2017 , 584-585, 838-848	10.2	42
58	The combination of compost addition and arbuscular mycorrhizal inoculation produced positive and synergistic effects on the phytomanagement of a semiarid mine tailing. <i>Science of the Total Environment</i> , 2015 , 514, 42-8	10.2	42
57	Soil aggregate stability and organic matter in clay and fine silt fractions in urban refuse-amended semiarid soils. <i>Soil Science Society of America Journal</i> , 2001 , 65, 1235-1238	2.5	41
56	Differential effects of Pseudomonas mendocina and Glomus intraradices on lettuce plants physiological response and aquaporin PIP2 gene expression under elevated atmospheric CO2 and drought. <i>Microbial Ecology</i> , 2009 , 58, 942-51	4.4	40
55	Estimation by PLFA of microbial community structure associated with the rhizosphere of Lygeum spartum and Piptatherum miliaceum growing in semiarid mine tailings. <i>Microbial Ecology</i> , 2010 , 60, 265-	1 14	40
54	Superoxide dismutase and total peroxidase activities in relation to drought recovery performance of mycorrhizal shrub seedlings grown in an amended semiarid soil. <i>Journal of Plant Physiology</i> , 2008 , 165, 715-22	3.6	39
53	Organic Fertilization in Traditional Mediterranean Grapevine Orchards Mediates Changes in Soil Microbial Community Structure and Enhances Soil Fertility. <i>Land Degradation and Development</i> , 2016 , 27, 1622-1628	4.4	39
52	Synergistic influence of an arbuscular mycorrhizal fungus and organic amendment on Pistacia lentiscus L. seedlings afforested in a degraded semiarid soil. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 113	g-₹14.	5 ³⁷
51	Improvement of soil characteristics and growth of Dorycnium pentaphyllum by amendment with agrowastes and inoculation with AM fungi and/or the yeast Yarowia lipolytica. <i>Chemosphere</i> , 2004 , 56, 449-56	8.4	35
50	Elevated CO2 increases the effect of an arbuscular mycorrhizal fungus and a plant-growth-promoting rhizobacterium on structural stability of a semiarid agricultural soil under drought conditions. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1710-1716	7.5	34
49	Formation of stable aggregates in rhizosphere soil of Juniperus oxycedrus: Effect of AM fungi and organic amendments. <i>Applied Soil Ecology</i> , 2006 , 33, 30-38	5	34
48	Inoculation with arbuscular mycorrhizal fungi and addition of composted olive-mill waste enhance plant establishment and soil properties in the regeneration of a heavy metal-polluted environment. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 7403-12	5.1	33
47	Effects of water stress, organic amendment and mycorrhizal inoculation on soil microbial community structure and activity during the establishment of two heavy metal-tolerant native plant species. <i>Microbial Ecology</i> , 2012 , 63, 794-803	4.4	33
46	Striking alterations in the soil bacterial community structure and functioning of the biological N cycle induced by Pennisetum setaceum invasion in a semiarid environment. <i>Soil Biology and Biochemistry</i> , 2017 , 109, 176-187	7.5	32
45	Photosynthetic and Transpiration Rates of Olea europaea subsp. sylvestris and Rhamnus lycioides as Affected by Water Deficit and Mycorrhiza. <i>Biologia Plantarum</i> , 2003 , 46, 637-639	2.1	32
44	Effect of Arbuscular Mycorrhizae and Induced Drought Stress on Antioxidant Enzyme and Nitrate Reductase Activities in Juniperus oxycedrus L. Grown in a Composted Sewage Sludge-amended Semi-arid Soil. <i>Plant and Soil</i> , 2006 , 279, 209-218	4.2	29
43	Effects of elevated CO2, water stress, and inoculation with Glomus intraradices or Pseudomonas mendocina on lettuce dry matter and rhizosphere microbial and functional diversity under growth chamber conditions. <i>Journal of Soils and Sediments</i> , 2010 , 10, 1585-1597	3.4	25

Stability of desiccated rhizosphere soil aggregates of mycorrhizal Juniperus oxycedrus grown in a 42 desertified soil amended with a composted organic residue. Soil Biology and Biochemistry, **2006**, 38, $272\overline{2}$ - $\overline{2}730^{25}$ Microbial processes in the rhizosphere soil of a heavy metals-contaminated Mediterranean salt 8.4 41 25 marsh: a facilitating role of AM fungi. Chemosphere, 2006, 64, 104-11 Effect of Mycorrhizal Inoculation on Nutrient Acquisition, Gas Exchange, and Nitrate Reductase Activity of Two Mediterranean-Autochthonous Shrub Species Under Drought Stress. Journal of 40 2.3 25 Plant Nutrition, 2004, 27, 57-74 Alteration in rhizosphere soil properties of afforested Rhamnus lycioides seedlings in short-term response to mycorrhizal inoculation with Glomus intraradices and organic amendment. 39 3.1 24 Environmental Management, 2003, 31, 412-20 Unraveling the role of hyphal networks from arbuscular mycorrhizal fungi in aggregate stabilization 38 4.2 23 of semiarid soils with different textures and carbonate contents. Plant and Soil, 2017, 410, 273-281 Medium-term effects of mycorrhizal inoculation and composted municipal waste addition on the establishment of two Mediterranean shrub species under semiarid field conditions. Agriculture, 22 37 5.7 Ecosystems and Environment, 2003, 97, 95-105 Comparative effects of native filamentous and arbuscular mycorrhizal fungi in the establishment of 36 an autochthonous, leguminous shrub growing in a metal-contaminated soil. Science of the Total 10.2 21 Environment, 2011, 409, 1205-9 A microcosm approach to assessing the effects of earthworm inoculation and oat cover cropping 35 8.4 21 on CO2 fluxes and biological properties in an amended semiarid soil. Chemosphere, 2005, 59, 1625-31 Effects of mycorrhizal inoculation of shrubs from Mediterranean ecosystems and composted residue application on transplant performance and mycorrhizal developments in a desertified soil. 6.1 21 34 Biology and Fertility of Soils, 2002, 36, 170-175 Effect of Eisenia foetida earthworms on mineralization kinetics, microbial biomass, enzyme activities, respiration and labile C fractions of three soils treated with a composted organic residue. 6.1 21 33 Biology and Fertility of Soils, 2003, 38, 45-51 Suitability of the microbial community composition and function in a semiarid mine soil for assessing phytomanagement practices based on mycorrhizal inoculation and amendment addition. 32 7.9 20 Journal of Environmental Management, 2016, 169, 236-46 The Role of Relict Vegetation in Maintaining Physical, Chemical, and Biological Properties in an 1.8 19 Abandoned Stipa -Grass Agroecosystem. Arid Land Research and Management, 2003, 17, 103-111 Microbial activities and arbuscular mycorrhizal fungi colonization in the rhizosphere of the salt 30 1.7 19 marsh plantinula crithmoides L. along a spatial salinity gradient. Wetlands, 2005, 25, 350-355 Advantages of inoculation with immobilized rhizobacteria versus amendment with olive-mill waste 18 29 3.9 in the afforestation of a semiarid area with Pinus halepensis Mill. Ecological Engineering, 2014, 73, 1-8 Changes in biological activity of a degraded Mediterranean soil after using microbially-treated dry olive cake as a biosolid amendment and arbuscular mycorrhizal fungi. European Journal of Soil 28 18 2.9 Biology, 2008, 44, 347-354 Establishment of Retama sphaerocarpa L. seedlings on a degraded semiarid soil as influenced by mycorrhizal inoculation and sewage-sludge amendment. Journal of Plant Nutrition and Soil Science, 18 27 2.3 2004, 167, 637-644 Use of Nitrate Reductase Activity for Assessing Effectiveness of Mycorrhizal Symbiosis in 26 Dorycnium pentaphyllum Under Induced Water Deficit. Communications in Soil Science and Plant 18 1.5 Analysis, 2003, 34, 2291-2302 Selection of Plant Species Drganic Amendment Combinations to Assure Plant Establishment and Soil Microbial Function Recovery in the Phytostabilization of a Metal-Contaminated Soil. Water, Air, 2.6 17 and Soil Pollution, 2014, 225, 1

24	Changes in physical and biological soil quality indicators in a tropical crop system (Havana, Cuba) in response to different agroecological management practices. <i>Environmental Management</i> , 2003 , 32, 639	-4 5	17
23	Prolonged irrigation with municipal wastewater promotes a persistent and active soil microbial community in a semiarid agroecosystem. <i>Agricultural Water Management</i> , 2015 , 149, 115-122	5.9	15
22	Improvements in soil quality and performance of mycorrhizal Cistus albidus L. seedlings resulting from addition of microbially treated sugar beet residue to a degraded semiarid Mediterranean soil. <i>Soil Use and Management</i> , 2003 , 19, 277-283	3.1	15
21	Arbuscular mycorrhizal fungi and their associated microbial community modulated by Collembola grazers in host plant free substrate. <i>Soil Biology and Biochemistry</i> , 2014 , 69, 25-33	7.5	14
20	Synergists and antagonists in the rhizosphere modulate microbial communities and growth of Quercus robur L <i>Soil Biology and Biochemistry</i> , 2015 , 82, 65-73	7.5	14
19	AM fungi inoculation and addition of microbially-treated dry olive cake-enhanced afforestation of a desertified Mediterranean site. <i>Land Degradation and Development</i> , 2004 , 15, 153-161	4.4	14
18	Nutrient acquisition and nitrate reductase activity of mycorrhizal Retama sphaerocarpa L. seedlings afforested in an amended semiarid soil under two water regimes. <i>Soil Use and Management</i> , 2005 , 21, 10-16	3.1	13
17	Assessment of the potential role of Streptomyces strains in the revegetation of semiarid sites: the relative incidence of strain origin and plantation site on plant performance and soil quality indicators. <i>Biology and Fertility of Soils</i> , 2016 , 52, 53-64	6.1	12
16	Spatial Shifts in Soil Microbial Activity and Degradation of Pasture Cover Caused by Prolonged Exposure to Cement Dust. <i>Land Degradation and Development</i> , 2017 , 28, 1329-1335	4.4	11
15	The invader Carpobrotus edulis promotes a specific rhizosphere microbiome across globally distributed coastal ecosystems. <i>Science of the Total Environment</i> , 2020 , 719, 137347	10.2	11
14	Impact of DOM from composted "alperujo" on soil structure, AM fungi, microbial activity and growth of Medicago sativa. <i>Waste Management</i> , 2008 , 28, 1423-31	8.6	11
13	Arbuscular mycorrhizal fungal assemblages in biological crusts from a Neotropical savanna are not related to the dominant perennial Trachypogon. <i>Science of the Total Environment</i> , 2017 , 575, 1203-1210	10.2	10
12	Addition of microbially-treated sugar beet residue and a native bacterium increases structural stability in heavy metal-contaminated Mediterranean soils. <i>Science of the Total Environment</i> , 2009 , 407, 5448-54	10.2	9
11	Soil acidity determines the effectiveness of an organic amendment and a native bacterium for increasing soil stabilisation in semiarid mine tailings. <i>Chemosphere</i> , 2009 , 74, 239-44	8.4	9
10	Drug action of ritodrine on the sarcoplasmic reticulum Ca(2+)-ATPase from skeletal muscle. <i>Archives of Biochemistry and Biophysics</i> , 1995 , 318, 97-104	4.1	9
9	Interaction between AM fungi and a liquid organic amendment with respect to enhancement of the performance of the leguminous shrub Retama sphaerocarpa. <i>Biology and Fertility of Soils</i> , 2006 , 43, 30-3	88.1	7
8	The unspecificity of the relationships between the invasive Pennisetum setaceum and mycorrhizal fungi may provide advantages during its establishment at semiarid Mediterranean sites. <i>Science of the Total Environment</i> , 2018 , 630, 1464-1471	10.2	6
7	Invasive Nicotiana glauca shifts the soil microbial community composition and functioning of harsh and disturbed semiarid Mediterranean environments. <i>Biological Invasions</i> , 2020 , 22, 2923-2940	2.7	3

LIST OF PUBLICATIONS

6	The invasion of semiarid Mediterranean sites by Nicotiana glauca mediates temporary changes in mycorrhizal associations and a permanent decrease in rhizosphere activity. <i>Plant and Soil</i> , 2020 , 450, 217-229	4.2	3
5	Growth and nitrate reductase activity in Juniperus oxycedrus subjected to organic amendments and inoculation with arbuscular mycorrhizae. <i>Journal of Plant Nutrition and Soil Science</i> , 2006 , 169, 501-	5 63	2
4	Improvements in soil quality and performance of mycorrhizal Cistus albidus L. seedlings resulting from addition of microbially treated sugar beet residue to a degraded semiarid Mediterranean soil. <i>Soil Use and Management</i> , 2006 , 19, 277-283	3.1	2
3	Nutrient acquisition and nitrate reductase activity of mycorrhizal Retama sphaerocarpa L. seedlings afforested in an amended semiarid soil under two water regimes. <i>Soil Use and Management</i> , 2006 , 21, 10-16	3.1	1
2	Salvage logging alters microbial community structure and functioning after a wildfire in a Mediterranean forest. <i>Applied Soil Ecology</i> , 2021 , 168, 104130	5	1
1	Elevated functional versatility of the soil microbial community associated with the invader Carpobrotus edulis across a broad geographical scale <i>Science of the Total Environment</i> , 2021 , 813, 1526	5 <mark>1</mark> 9.2	O