Caravaca Ballester

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95 papers	4,747 citations	40 h-index	67 g-index
97 ext. papers	5,196 ext. citations	5.5 avg, IF	5.34 L-index

#	Paper	IF	Citations
95	Elevated functional versatility of the soil microbial community associated with the invader Carpobrotus edulis across a broad geographical scale.. *Science of the Total Environment*, **2021**, 813, 152627	10.2	0
94	Salvage logging alters microbial community structure and functioning after a wildfire in a Mediterranean forest. *Applied Soil Ecology*, **2021**, 168, 104130	5	1
93	The invader Carpobrotus edulis promotes a specific rhizosphere microbiome across globally distributed coastal ecosystems. *Science of the Total Environment*, **2020**, 719, 137347	10.2	11
92	Invasive Nicotiana glauca shifts the soil microbial community composition and functioning of harsh and disturbed semiarid Mediterranean environments. *Biological Invasions*, **2020**, 22, 2923-2940	2.7	3
91	The invasion of semiarid Mediterranean sites by Nicotiana glauca mediates temporary changes in mycorrhizal associations and a permanent decrease in rhizosphere activity. *Plant and Soil*, **2020**, 450, 217-229	4.2	3
90	The unspecificity of the relationships between the invasive Pennisetum setaceum and mycorrhizal fungi may provide advantages during its establishment at semiarid Mediterranean sites. *Science of the Total Environment*, **2018**, 630, 1464-1471	10.2	6
89	Spatial Shifts in Soil Microbial Activity and Degradation of Pasture Cover Caused by Prolonged Exposure to Cement Dust. *Land Degradation and Development*, **2017**, 28, 1329-1335	4.4	11
88	Arbuscular mycorrhizal fungi inoculation mediated changes in rhizosphere bacterial community structure while promoting revegetation in a semiarid ecosystem. *Science of the Total Environment*, **2017**, 584-585, 838-848	10.2	42
87	Striking alterations in the soil bacterial community structure and functioning of the biological N cycle induced by Pennisetum setaceum invasion in a semiarid environment. *Soil Biology and Biochemistry*, **2017**, 109, 176-187	7.5	32
86	Unraveling the role of hyphal networks from arbuscular mycorrhizal fungi in aggregate stabilization of semiarid soils with different textures and carbonate contents. *Plant and Soil*, **2017**, 410, 273-281	4.2	23
85	Arbuscular mycorrhizal fungal assemblages in biological crusts from a Neotropical savanna are not related to the dominant perennial Trachypogon. *Science of the Total Environment*, **2017**, 575, 1203-1210	10.2	10
84	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. *Biology and Fertility of Soils*, **2016**, 52, 53-64	6.1	12
83	Suitability of the microbial community composition and function in a semiarid mine soil for assessing phytomanagement practices based on mycorrhizal inoculation and amendment addition. *Journal of Environmental Management*, **2016**, 169, 236-46	7.9	20
82	Organic Fertilization in Traditional Mediterranean Grapevine Orchards Mediates Changes in Soil Microbial Community Structure and Enhances Soil Fertility. *Land Degradation and Development*, **2016**, 27, 1622-1628	4.4	39
81	Prolonged irrigation with municipal wastewater promotes a persistent and active soil microbial community in a semiarid agroecosystem. *Agricultural Water Management*, **2015**, 149, 115-122	5.9	15
80	Synergists and antagonists in the rhizosphere modulate microbial communities and growth of Quercus robur L.. *Soil Biology and Biochemistry*, **2015**, 82, 65-73	7.5	14
79	The combination of compost addition and arbuscular mycorrhizal inoculation produced positive and synergistic effects on the phytomanagement of a semiarid mine tailing. *Science of the Total Environment*, **2015**, 514, 42-8	10.2	42

78	Selection of Plant Species/Organic Amendment Combinations to Assure Plant Establishment and Soil Microbial Function Recovery in the Phytostabilization of a Metal-Contaminated Soil. *Water, Air, and Soil Pollution*, **2014**, 225, 1	2.6	17
77	Advantages of inoculation with immobilized rhizobacteria versus amendment with olive-mill waste in the afforestation of a semiarid area with Pinus halepensis Mill. *Ecological Engineering*, **2014**, 73, 1-8	3.9	18
76	Arbuscular mycorrhizal fungi and their associated microbial community modulated by Collembola grazers in host plant free substrate. *Soil Biology and Biochemistry*, **2014**, 69, 25-33	7.5	14
75	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. *Environmental Science and Pollution Research*, **2014**, 21, 7403-12	5.1	33
74	Agricultural use of digestate for horticultural crop production and improvement of soil properties. *European Journal of Agronomy*, **2012**, 43, 119-128	5	178
73	Soil structural stability and erosion rates influenced by agricultural management practices in a semi-arid Mediterranean agro-ecosystem. *Soil Use and Management*, **2012**, 28, 571-579	3.1	123
72	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. *Microbial Ecology*, **2012**, 63, 794-803	4.4	33
71	The application of an organic amendment modifies the arbuscular mycorrhizal fungal communities colonizing native seedlings grown in a heavy-metal-polluted soil. *Soil Biology and Biochemistry*, **2011** , 43, 1498-1508	7.5	64
70	Comparative effects of native filamentous and arbuscular mycorrhizal fungi in the establishment of an autochthonous, leguminous shrub growing in a metal-contaminated soil. *Science of the Total Environment*, **2011**, 409, 1205-9	10.2	21
69	Estimation by PLFA of microbial community structure associated with the rhizosphere of Lygeum spartum and Piptatherum miliaceum growing in semiarid mine tailings. *Microbial Ecology*, **2010**, 60, 265-71	4.4	40
68	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. *Journal of Soils and Sediments*, **2010**, 10, 1585-1597	3.4	25
67	An AM fungus and a PGPR intensify the adverse effects of salinity on the stability of rhizosphere soil aggregates of Lactuca sativa. *Soil Biology and Biochemistry*, **2010**, 42, 429-434	7.5	112
66	Soil microbial biomass and activity under different agricultural management systems in a semiarid Mediterranean agroecosystem. *Soil and Tillage Research*, **2010**, 109, 110-115	6.5	168
65	Increased diversity of arbuscular mycorrhizal fungi in a long-term field experiment via application of organic amendments to a semiarid degraded soil. *Applied and Environmental Microbiology*, **2009**, 75, 4254-63	4.8	51
64	Addition of microbially-treated sugar beet residue and a native bacterium increases structural stability in heavy metal-contaminated Mediterranean soils. *Science of the Total Environment*, **2009**, 407, 5448-54	10.2	9
63	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. *Soil Biology and Biochemistry*, **2009**, 41, 1710-1716	7.5	34
62	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. *Environmental and Experimental Botany*, **2009**, 65, 245-252	5.9	273
61	Differential effects of Pseudomonas mendocina and Glomus intraradices on lettuce plants physiological response and aquaporin PIP2 gene expression under elevated atmospheric CO2 and drought. *Microbial Ecology*, **2009**, 58, 942-51	4.4	40

60	Soil acidity determines the effectiveness of an organic amendment and a native bacterium for increasing soil stabilisation in semiarid mine tailings. *Chemosphere*, **2009**, 74, 239-44	8.4	9
59	Effect of drought on the stability of rhizosphere soil aggregates of Lactuca sativa grown in a degraded soil inoculated with PGPR and AM fungi. *Applied Soil Ecology*, **2009**, 42, 160-165	5	51
58	Poultry manure and banana waste are effective biofertilizer carriers for promoting plant growth and soil sustainability in banana crops. *Soil Biology and Biochemistry*, **2008**, 40, 3092-3095	7.5	62
57	Plant-growth-promoting rhizobacteria and arbuscular mycorrhizal fungi modify alleviation biochemical mechanisms in water-stressed plants. *Functional Plant Biology*, **2008**, 35, 141-151	2.7	250
56	Superoxide dismutase and total peroxidase activities in relation to drought recovery performance of mycorrhizal shrub seedlings grown in an amended semiarid soil. *Journal of Plant Physiology*, **2008** , 165, 715-22	3.6	39
55	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 Biology*, **2008**, 44, 347-354	2.9	18
54	Impact of DOM from composted "alperujo" on soil structure, AM fungi, microbial activity and growth of Medicago sativa. *Waste Management*, **2008**, 28, 1423-31	8.6	11
53	Soil sustainability indicators following conservation tillage practices under subtropical maize and bean crops. *Soil and Tillage Research*, **2007**, 93, 273-282	6.5	64
52	Interactions between a plant growth-promoting rhizobacterium, an AM fungus and a phosphate-solubilising fungus in the rhizosphere of Lactuca sativa. *Applied Soil Ecology*, **2007**, 35, 480-487	5	115
51	Interaction between AM fungi and a liquid organic amendment with respect to enhancement of the performance of the leguminous shrub Retama sphaerocarpa. *Biology and Fertility of Soils*, **2006**, 43, 30-38	6.1	7
50	Stability of desiccated rhizosphere soil aggregates of mycorrhizal Juniperus oxycedrus grown in a desertified soil amended with a composted organic residue. *Soil Biology and Biochemistry*, **2006**, 38, 2722-2730	7.5	25
49	Formation of stable aggregates in rhizosphere soil of Juniperus oxycedrus: Effect of AM fungi and organic amendments. *Applied Soil Ecology*, **2006**, 33, 30-38	5	34
48	Microbial processes in the rhizosphere soil of a heavy metals-contaminated Mediterranean salt marsh: a facilitating role of AM fungi. *Chemosphere*, **2006**, 64, 104-11	8.4	25
47	Growth and nitrate reductase activity in Juniperus oxycedrus subjected to organic amendments and inoculation with arbuscular mycorrhizae. *Journal of Plant Nutrition and Soil Science*, **2006**, 169, 501-505	2.3	2
46	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. *Soil Use and Management*, **2006**, 19, 277-283	3.1	2
45	Nutrient acquisition and nitrate reductase activity of mycorrhizal Retama sphaerocarpa L. seedlings afforested in an amended semiarid soil under two water regimes. *Soil Use and Management*, **2006**, 21, 10-16	3.1	1
44	Contribution of Pseudomonas mendocina and Glomus intraradices to aggregate stabilization and promotion of biological fertility in rhizosphere soil of lettuce plants under field conditions. *Soil Use and Management*, **2006**, 22, 298-304	3.1	118
43	Differential modulation of host plant delta13C and delta18O by native and nonnative arbuscular mycorrhizal fungi in a semiarid environment. *New Phytologist*, **2006**, 169, 379-87	9.8	72

42	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. *Plant and Soil*, **2006**, 279, 209-218	4.2	29
41	Plant type mediates rhizospheric microbial activities and soil aggregation in a semiarid Mediterranean salt marsh. *Geoderma*, **2005**, 124, 375-382	6.7	98
40	Soil enzyme activities suggest advantages of conservation tillage practices in sorghum cultivation under subtropical conditions. *Geoderma*, **2005**, 129, 178-185	6.7	114
39	A microcosm approach to assessing the effects of earthworm inoculation and oat cover cropping on CO2 fluxes and biological properties in an amended semiarid soil. *Chemosphere*, **2005**, 59, 1625-31	8.4	21
38	Involvement of antioxidant enzyme and nitrate reductase activities during water stress and recovery of mycorrhizal Myrtus communis and Phillyrea angustifolia plants. *Plant Science*, **2005**, 169, 191-197	5.3	61
37	Changes in soil enzyme activity, fertility, aggregation and C sequestration mediated by conservation tillage practices and water regime in a maize field. *Applied Soil Ecology*, **2005**, 30, 11-20	5	118
36	Use of microbiological indicators for evaluating success in soil restoration after revegetation of a mining area under subtropical conditions. *Applied Soil Ecology*, **2005**, 30, 3-10	5	99
35	Microbial activities and arbuscular mycorrhizal fungi colonization in the rhizosphere of the salt marsh plantInula crithmoides L. along a spatial salinity gradient. *Wetlands*, **2005**, 25, 350-355	1.7	19
34	Survival of inocula and native AM fungi species associated with shrubs in a degraded Mediterranean ecosystem. *Soil Biology and Biochemistry*, **2005**, 37, 227-233	7.5	58
33	Establishment of two ectomycorrhizal shrub species in a semiarid site after in situ amendment with sugar beet, rock phosphate, and Aspergillus niger. *Microbial Ecology*, **2005**, 49, 73-82	4.4	44
32	Changes in rhizosphere microbial activity mediated by native or allochthonous AM fungi in the reafforestation of a Mediterranean degraded environment. *Biology and Fertility of Soils*, **2005**, 41, 59-68	6.1	46
31	Nutrient acquisition and nitrate reductase activity of mycorrhizal Retama sphaerocarpa L. seedlings afforested in an amended semiarid soil under two water regimes. *Soil Use and Management*, **2005**, 21, 10-16	3.1	13
30	AM fungi inoculation and addition of microbially-treated dry olive cake-enhanced afforestation of a desertified Mediterranean site. *Land Degradation and Development*, **2004**, 15, 153-161	4.4	14
29	Aggregate stability and carbon characteristics of particle-size fractions in cultivated and forested soils of semiarid Spain. *Soil and Tillage Research*, **2004**, 78, 83-90	6.5	62
28	Effect of Mycorrhizal Inoculation on Nutrient Acquisition, Gas Exchange, and Nitrate Reductase Activity of Two Mediterranean-Autochthonous Shrub Species Under Drought Stress. *Journal of Plant Nutrition*, **2004**, 27, 57-74	2.3	25
27	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*, **2004**, 167, 637-644	2.3	18
26	Improvement of soil characteristics and growth of Dorycnium pentaphyllum by amendment with agrowastes and inoculation with AM fungi and/or the yeast Yarowia lipolytica. *Chemosphere*, **2004**, 56, 449-56	8.4	35
25	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.. *Applied Soil Ecology*, **2004**, 25, 169-180	5	48

24	The Role of Relict Vegetation in Maintaining Physical, Chemical, and Biological Properties in an Abandoned Stipa -Grass Agroecosystem. *Arid Land Research and Management*, **2003**, 17, 103-111	1.8	19
23	Photosynthetic and Transpiration Rates of Olea europaea subsp. sylvestris and Rhamnus lycioides as Affected by Water Deficit and Mycorrhiza. *Biologia Plantarum*, **2003**, 46, 637-639	2.1	32
22	Alteration in rhizosphere soil properties of afforested Rhamnus lycioides seedlings in short-term response to mycorrhizal inoculation with Glomus intraradices and organic amendment. *Environmental Management*, **2003**, 31, 412-20	3.1	24
21	Changes in physical and biological soil quality indicators in a tropical crop system (Havana, Cuba) in response to different agroecological management practices. *Environmental Management*, **2003**, 32, 639-45	3.1	17
20	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. *Biology and Fertility of Soils*, **2003**, 38, 45-51	6.1	21
19	Differential response of delta13C and water use efficiency to arbuscular mycorrhizal infection in two aridland woody plant species. *Oecologia*, **2003**, 135, 510-5	2.9	64
18	Medium-term effects of mycorrhizal inoculation and composted municipal waste addition on the establishment of two Mediterranean shrub species under semiarid field conditions. *Agriculture, Ecosystems and Environment*, **2003**, 97, 95-105	5.7	22
17	Application of composted urban residue enhanced the performance of afforested shrub species in a degraded semiarid land. *Bioresource Technology*, **2003**, 90, 65-70	11	45
16	Antioxidant enzyme activities in shoots from three mycorrhizal shrub species afforested in a degraded semi-arid soil. *Physiologia Plantarum*, **2003**, 118, 562-570	4.6	106
15	No-tillage, crop residue additions, and legume cover cropping effects on soil quality characteristics under maize in Patzcuaro watershed (Mexico). *Soil and Tillage Research*, **2003**, 72, 65-73	6.5	129
14	Use of Nitrate Reductase Activity for Assessing Effectiveness of Mycorrhizal Symbiosis in Dorycnium pentaphyllum Under Induced Water Deficit. *Communications in Soil Science and Plant Analysis*, **2003**, 34, 2291-2302	1.5	18
13	Assessing changes in physical and biological properties in a soil contaminated by oil sludges under semiarid Mediterranean conditions. *Geoderma*, **2003**, 117, 53-61	6.7	48
12	Re-establishment of Retama sphaerocarpa as a target species for reclamation of soil physical and biological properties in a semi-arid Mediterranean area. *Forest Ecology and Management*, **2003**, 182, 49-58	3.9	88
11	Establishment of shrub species in a degraded semiarid site after inoculation with native or allochthonous arbuscular mycorrhizal fungi. *Applied Soil Ecology*, **2003**, 22, 103-111	5	118
10	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. *Soil Use and Management*, **2003**, 19, 277-283	3.1	15
9	Effects of mycorrhizal inoculation of shrubs from Mediterranean ecosystems and composted residue application on transplant performance and mycorrhizal developments in a desertified soil. *Biology and Fertility of Soils*, **2002**, 36, 170-175	6.1	21
8	Land use in relation to soil chemical and biochemical properties in a semiarid Mediterranean environment. *Soil and Tillage Research*, **2002**, 68, 23-30	6.5	155
7	Improvement of rhizosphere aggregate stability of afforested semiarid plant species subjected to mycorrhizal inoculation and compost addition. *Geoderma*, **2002**, 108, 133-144	6.7	100

6	Synergistic influence of an arbuscular mycorrhizal fungus and organic amendment on Pistacia lentiscus L. seedlings afforested in a degraded semiarid soil. *Soil Biology and Biochemistry*, **2002**, 34, 1139-1145	7.5	37
5	Aggregate stability changes after organic amendment and mycorrhizal inoculation in the afforestation of a semiarid site with Pinus halepensis. *Applied Soil Ecology*, **2002**, 19, 199-208	5	86
4	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. *Applied Soil Ecology*, **2002**, 20, 107-118	5	90
3	Soil aggregate stability and organic matter in clay and fine silt fractions in urban refuse-amended semiarid soils. *Soil Science Society of America Journal*, **2001**, 65, 1235-1238	2.5	41
2	Organic matter, nutrient contents and cation exchange capacity in fine fractions from semiarid calcareous soils. *Geoderma*, **1999**, 93, 161-176	6.7	77
1	Drug action of ritodrine on the sarcoplasmic reticulum Ca(2+)-ATPase from skeletal muscle. *Archives of Biochemistry and Biophysics*, **1995**, 318, 97-104	4.1	9