Maria del Mar Alguacil

List of Publications by Year
in descending order

64 papers	3,796 citations	109264 35 h-index	138417 58 g-index
65 all docs	65 docs citations	65 times ranked	4356 citing authors

#	Article	IF	Citations
1	The database of the <scp>PREDICTS</scp> (Projecting Responses of Ecological Diversity In Changing) Tj ETQq1 1 0.784314 rgBT /Overl	0.8	186
2	THE IMPACT OF TILLAGE PRACTICES ON ARBUSCULAR MYCORRHIZAL FUNGAL DIVERSITY IN SUBTROPICAL CROPS. , 2008, 18, 527-536.		172
3	Phytohormone Profiles Induced by Trichoderma Isolates Correspond with Their Biocontrol and Plant Growth-Promoting Activity on Melon Plants. Journal of Chemical Ecology, 2014, 40, 804-815.	0.9	171
4	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.	2.1	143
5	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.	2.1	136
6	Soil enzyme activities suggest advantages of conservation tillage practices in sorghum cultivation under subtropical conditions. Geoderma, 2005, 129, 178-185.	2.3	135
7	Host Preferences of Arbuscular Mycorrhizal Fungi Colonizing Annual Herbaceous Plant Species in Semiarid Mediterranean Prairies. Applied and Environmental Microbiology, 2012, 78, 6180-6186.	1.4	133
8	Antioxidant enzyme activities in shoots from three mycorrhizal shrub species afforested in a degraded semi-arid soil. Physiologia Plantarum, 2003, 118, 562-570.	2.6	115
9	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.	2.1	111
10	Plant Responses to Drought Stress and Exogenous ABA Application are Modulated Differently by Mycorrhization in Tomato and an ABA-deficient Mutant (Sitiens). Microbial Ecology, 2008, 56, 704-719.	1.4	111
11	Plant type mediates rhizospheric microbial activities and soil aggregation in a semiarid Mediterranean salt marsh. Geoderma, 2005, 124, 375-382.	2.3	110
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.	1.4	101
13	Different farming and water regimes in Italian rice fields affect arbuscular mycorrhizal fungal soil communities. , 2011, 21, 1696-1707.		99
14	Exogenous ABA accentuates the differences in root hydraulic properties between mycorrhizal and non mycorrhizal maize plants through regulation of PIP aquaporins. Plant Molecular Biology, 2009, 70, 565-579.	2.0	95
15	Phosphorus fertilisation management modifies the biodiversity of AM fungi in a tropical savanna forage system. Soil Biology and Biochemistry, 2010, 42, 1114-1122.	4.2	93
16	Soil sustainability indicators following conservation tillage practices under subtropical maize and bean crops. Soil and Tillage Research, 2007, 93, 273-282.	2.6	88
17	Plant type differently promote the arbuscular mycorrhizal fungi biodiversity in the rhizosphere after revegetation of a degraded, semiarid land. Soil Biology and Biochemistry, 2011, 43, 167-173.	4.2	82
18	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.	4.2	78

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19	The cover crop determines the AMF community composition in soil and in roots of maize after a ten-year continuous crop rotation. Science of the Total Environment, 2019, 660, 913-922.	3.9	76
20	Changes in the composition and diversity of AMF communities mediated by management practices in a Mediterranean soil are related with increases in soil biological activity. Soil Biology and Biochemistry, 2014, 76, 34-44.	4.2	74
21	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.	1.7	72
22	Soil Characteristics Driving Arbuscular Mycorrhizal Fungal Communities in Semiarid Mediterranean Soils. Applied and Environmental Microbiology, 2016, 82, 3348-3356.	1.4	66
23	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.	3.9	65
24	Survival of inocula and native AM fungi species associated with shrubs in a degraded Mediterranean ecosystem. Soil Biology and Biochemistry, 2005, 37, 227-233.	4.2	63
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.	2.1	60
26	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, 4254-4263.	1.4	57
27	Application of composted urban residue enhanced the performance of afforested shrub species in a degraded semiarid land. Bioresource Technology, 2003, 90, 65-70.	4.8	50
28	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.	2.3	50
29	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.	4.2	50
30	Differences in the AMF diversity in soil and roots between two annual and perennial gramineous plants co-occurring in a Mediterranean, semiarid degraded area. Plant and Soil, 2012, 354, 97-106.	1.8	49
31	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.	1.4	48
32	INCREASED PLANT GROWTH, NUTRIENT UPTAKE, AND SOIL ENZYMATIC ACTIVITIES IN A DESERTIFIED MEDITERRANEAN SOIL AMENDED WITH TREATED RESIDUES AND INOCULATED WITH NATIVE MYCORRHIZAL FUNGI AND A PLANT GROWTH-PROMOTING YEAST. Soil Science, 2004, 169, 260-270.	0.9	47
33	Assessing the diversity of AM fungi in arid gypsophilous plant communities. Environmental Microbiology, 2009, 11, 2649-2659.	1.8	47
34	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, 942-951.	1.4	44
35	Formation of stable aggregates in rhizosphere soil of Juniperus oxycedrus: Effect of AM fungi and organic amendments. Applied Soil Ecology, 2006, 33, 30-38.	2.1	41
36	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.	4.2	41

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37	Long-Term Effects of Irrigation with Waste Water on Soil AM Fungi Diversity and Microbial Activities: The Implications for Agro-Ecosystem Resilience. PLoS ONE, 2012, 7, e47680.	1.1	40
38	Perennial plant species from semiarid gypsum soils support higher AMF diversity in roots than the annual Bromus rubens. Soil Biology and Biochemistry, 2012, 49, 132-138.	4.2	38
39	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.	1.8	37
40	Plant isotopic composition provides insight into mechanisms underlying growth stimulation by AM fungi in a semiarid environment. Functional Plant Biology, 2007, 34, 683.	1.1	37
41	A molecular approach to ascertain the success of â€œin situâ€• AM fungi inoculation in the revegetation of a semiarid, degraded land. Science of the Total Environment, 2011, 409, 2874-2880.	3.9	36
42	Modularity Reveals the Tendency of Arbuscular Mycorrhizal Fungi To Interact Differently with Generalist and Specialist Plant Species in Gypsum Soils. Applied and Environmental Microbiology, 2014, 80, 5457-5466.	1.4	35
43	Complexity of Semiarid Gypsophilous Shrub Communities Mediates the AMF Biodiversity at the Plant Species Level. Microbial Ecology, 2009, 57, 718-727.	1.4	32
44	Changes in the Diversity of Soil Arbuscular Mycorrhizal Fungi after Cultivation for Biofuel Production in a Guantanamo (Cuba) Tropical System. PLoS ONE, 2012, 7, e34887.	1.1	31
45	Influence of Habitat and Climate Variables on Arbuscular Mycorrhizal Fungus Community Distribution, as Revealed by a Case Study of Facultative Plant Epiphytism under Semiarid Conditions. Applied and Environmental Microbiology, 2013, 79, 7203-7209.	1.4	30
46	Water-spender strategy is linked to higher leaf nutrient concentrations across plant species colonizing a dry and nutrient-poor epiphytic habitat. Environmental and Experimental Botany, 2018, 153, 302-310.	2.0	29
47	Lower relative abundance of ectomycorrhizal fungi under a warmer and drier climate is linked to enhanced soil organic matter decomposition. New Phytologist, 2021, 232, 1399-1413.	3.5	27
48	Evidence of Differences between the Communities of Arbuscular Mycorrhizal Fungi Colonizing Galls and Roots of Prunus persica Infected by the Root-Knot Nematode Meloidogyne incognita. Applied and Environmental Microbiology, 2011, 77, 8656-8661.	1.4	25
49	Species-specific roles of ectomycorrhizal fungi in facilitating interplant transfer of hydraulically redistributed water between Pinus halepensis saplings and seedlings. Plant and Soil, 2016, 406, 15-27.	1.8	25
50	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.	1.4	24
51	Arbuscular mycorrhizal fungi communities in a coral cay system (Morrocoy, Venezuela) and their relationships with environmental variables. Science of the Total Environment, 2015, 505, 805-813.	3.9	22
52	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.	0.6	21
53	Host identity and functional traits determine the community composition of the arbuscular mycorrhizal fungi in facultative epiphytic plant species. Fungal Ecology, 2019, 39, 307-315.	0.7	20
54	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, 639-645.	1.2	19

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55	Establishment ofRetama 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.	1.1	19
56	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.	1.8	16
57	Improvements in soil quality and performance of mycorrhizal <I>Cistus albidus</I> 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.	2.6	15
58	Nutrient acquisition and nitrate reductase activity of mycorrhizal <I>Retama sphaerocarpa</I> L. seedlings afforested in an amended semiarid soil under two water regimes. Soil Use and Management, 2005, 21, 10-16.	2.6	13
59	No tillage affects the phosphorus status, isotopic composition and crop yield of <i>Phaseolus vulgaris</i> in a rain-fed farming system. Journal of the Science of Food and Agriculture, 2011, 91, 268-272.	1.7	12
60	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.	3.9	12
61	Prunus persica Crop Management Differentially Promotes Arbuscular Mycorrhizal Fungi Diversity in a Tropical Agro-Ecosystem. PLoS ONE, 2014, 9, e88454.	1.1	9
62	Contrasting Responses of Arbuscular Mycorrhizal Fungal Families to Simulated Climate Warming and Drying in a Semiarid Shrubland. Microbial Ecology, 2022, 84, 941-944.	1.4	8
63	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.	1.1	3
64	Corrigendum to: Plant isotopic composition provides insight into mechanisms underlying growth stimulation by AM fungi in a semiarid environment. Functional Plant Biology, 2007, 34, 860.	1.1	2