

Cristina Cruz

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.

125
papers

2,708
citations

27
h-index

47
g-index

139
ext. papers

3,333
ext. citations

4.6
avg, IF

5.22
L-index

#	Paper	IF	Citations
125	Use of Symbiotic Fungi to Reduce the Phytotoxic Effect of DCD Nitrification Inhibitors in Lettuce. <i>Agriculture (Switzerland)</i> , 2022 , 12, 251	3	0
124	Recent Trends in Microbial Approaches for Soil Desalination. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3586	2.6	0
123	<i>Achromobacter xylosoxidans</i> and <i>Enteromorpha intestinalis</i> Extract Improve Tomato Growth under Salt Stress. <i>Agronomy</i> , 2022 , 12, 934	3.6	0
122	Microbial consortium increases maize productivity and reduces grain phosphorus concentration under field conditions. <i>Saudi Journal of Biological Sciences</i> , 2021 , 28, 232-237	4	6
121	Drought and salinity: A comparison of their effects on the ammonium-preferring species <i>Spartina alterniflora</i> . <i>Physiologia Plantarum</i> , 2021 , 172, 431-440	4.6	6
120	Potential <i>Piriformospora indica</i> effect on growth and mineral nutrition of <i>Phaseolus vulgaris</i> crop under low phosphorus intake. <i>Journal of Plant Nutrition</i> , 2021 , 44, 498-507	2.3	2
119	Phylogenetic Affinities and Infection Patterns of <i>Goussia</i> Infecting <i>Sardina pilchardus</i> from the NE Atlantic. <i>Acta Parasitologica</i> , 2021 , 66, 693-698	1.7	0
118	Agricultural Sustainability: Microbial Biofertilizers in Rhizosphere Management. <i>Agriculture (Switzerland)</i> , 2021 , 11, 163	3	38
117	The Adaptive Power of : Biomimetic Study, Systematic Observation, Parametric Design and Experimental Tests with Bimetal. <i>Polymers</i> , 2021 , 13,	4.5	1
116	Arbuscular mycorrhizal traits are good indicators of soil multifunctionality in drylands. <i>Geoderma</i> , 2021 , 397, 115099	6.7	4
115	Transformation of organic and inorganic sulfur: Adding perspectives to new players in soil and rhizosphere. <i>Soil Biology and Biochemistry</i> , 2021 , 160, 108306	7.5	4
114	Iron Toxicity and Its Relation to Nitrogen and Phosphorus Availability in Ectomycorrhizal Fungi. <i>Soil Biology</i> , 2021 , 459-479	1	0
113	Modulation of the Wheat Seed-Borne Bacterial Community by RAM10 and Its Potential Effects for Tryptophan Metabolism in the Root Endosphere.. <i>Frontiers in Microbiology</i> , 2021 , 12, 792921	5.7	0
112	Plasma membrane H pump at a crossroads of acidic and iron stresses in yeast-to-hypha transition. <i>Metallomics</i> , 2020 , 12, 2174-2185	4.5	0
111	New strategies to overcome water limitation in cultivated maize: Results from sub-surface irrigation and silicon fertilization. <i>Journal of Environmental Management</i> , 2020 , 263, 110398	7.9	7
110	An Optimized Quantification Method of Leaf HO Unveils Interaction Dynamics of Pathogenic and Beneficial Bacteria in Wheat. <i>Frontiers in Plant Science</i> , 2020 , 11, 889	6.2	1
109	Effects of <i>Goussia</i> infecting the blue whiting and phylogenetic placement of <i>Goussia</i> infecting marine fish off Northern Portugal. <i>Parasitology Research</i> , 2020 , 119, 2139-2147	2.4	3

108	Does Arbuscular Mycorrhiza Determine Soil Microbial Functionality in Nutrient-Limited Mediterranean Arid Ecosystems?. <i>Diversity</i> , 2020 , 12, 234	2.5	8
107	Inoculation with the endophytic bacterium <i>Herbaspirillum seropedicae</i> promotes growth, nutrient uptake and photosynthetic efficiency in rice. <i>Planta</i> , 2020 , 252, 87	4.7	5
106	Unveiling the hidden interaction between thermophiles and plant crops: wheat and soil thermophilic bacteria. <i>Journal of Plant Interactions</i> , 2020 , 15, 127-138	3.8	4
105	More tolerant than expected: Taking into account the ability of <i>Cladonia portentosa</i> to cope with increased nitrogen availability in environmental policy. <i>Ecological Indicators</i> , 2020 , 119, 106817	5.8	3
104	Nitrogen inputs may improve soil biocrusts multifunctionality in dryland ecosystems. <i>Soil Biology and Biochemistry</i> , 2020 , 149, 107947	7.5	7
103	Current Advances in Plant Growth Promoting Bacteria Alleviating Salt Stress for Sustainable Agriculture. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7025	2.6	27
102	The Free-Living Stage Growth Conditions of the Endophytic Fungus May Regulate Its Potential as Plant Growth Promoting Microbe. <i>Frontiers in Microbiology</i> , 2020 , 11, 562238	5.7	2
101	The distribution of herbivores between leaves matches their performance only in the absence of competitors. <i>Ecology and Evolution</i> , 2020 , 10, 8405-8415	2.8	4
100	Sustainable urban agriculture using compost and an open-pollinated maize variety. <i>Journal of Cleaner Production</i> , 2019 , 212, 622-629	10.3	12
99	Inoculation With Is More Efficient in Wild-Type Rice Than in Transgenic Rice Over-Expressing the Vacuolar H-PPase. <i>Frontiers in Microbiology</i> , 2019 , 10, 1087	5.7	11
98	Interactive effects of salinity and nitrogen forms on plant growth, photosynthesis and osmotic adjustment in maize. <i>Plant Physiology and Biochemistry</i> , 2019 , 139, 171-178	5.4	46
97	When the exception becomes the rule: An integrative approach to symbiosis. <i>Science of the Total Environment</i> , 2019 , 672, 855-861	10.2	6
96	Arbuscular mycorrhizal fungi in soil, roots and rhizosphere of : diversity and heterogeneity under semi-arid conditions. <i>PeerJ</i> , 2019 , 7, e6401	3.1	16
95	Symbiosis Between Sebacinales and Aloe vera 2019 , 349-373		
94	δ of lichens reflects the isotopic signature of ammonia source. <i>Science of the Total Environment</i> , 2019 , 653, 698-704	10.2	11
93	Arbuscular mycorrhizal fungal species differ in their capacity to overrule the soil legacy from maize monocropping. <i>Applied Soil Ecology</i> , 2018 , 125, 177-183	5	8
92	Conventional farming disrupts cooperation among phosphate solubilising bacteria isolated from <i>Carica papaya</i> rhizosphere. <i>Applied Soil Ecology</i> , 2018 , 124, 284-288	5	6
91	Extracts from Marine Macroalgae and <i>Opuntia ficus-indica</i> Cladodes Enhance Halotolerance and Enzymatic Potential of Diazotrophic Rhizobacteria and Their Impact on Wheat Germination Under Salt Stress. <i>Pedosphere</i> , 2018 , 28, 241-254	5	5

90	Nitrogen isotope signature evidences ammonium deprotonation as a common transport mechanism for the AMT-Mep-Rh protein superfamily. <i>Science Advances</i> , 2018 , 4, eaar3599	14.3	17
89	Introduction to Mycorrhiza: Historical Development 2017 , 1-7		15
88	Soil: Do Not Disturb, Mycorrhiza in Action 2017 , 27-38		3
87	Ecological impacts of atmospheric pollution and interactions with climate change in terrestrial ecosystems of the Mediterranean Basin: Current research and future directions. <i>Environmental Pollution</i> , 2017 , 227, 194-206	9.3	70
86	N fertilization in a Mediterranean ecosystem alters N and P turnover in soil, roots and the ectomycorrhizal community. <i>Soil Biology and Biochemistry</i> , 2017 , 113, 60-70	7.5	3
85	Drought stress obliterates the preference for ammonium as an N source in the C plant <i>Spartina alterniflora</i> . <i>Journal of Plant Physiology</i> , 2017 , 213, 98-107	3.6	15
84	The cost of surviving nitrogen excess: energy and protein demand in the lichen <i>Cladonia portentosa</i> as revealed by proteomic analysis. <i>Planta</i> , 2017 , 245, 819-833	4.7	11
83	Intra- and inter-specific variations in chitin in lichens along a N-deposition gradient. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 28065-28071	5.1	8
82	Alleviating Nitrogen Limitation in Mediterranean Maquis Vegetation Leads to Ecological Degradation. <i>Land Degradation and Development</i> , 2017 , 28, 2482-2492	4.4	6
81	How to Outgrow Your Native Neighbour? Belowground Changes under Native Shrubs at an Early Stage of Invasion. <i>Land Degradation and Development</i> , 2017 , 28, 2380-2388	4.4	5
80	Biological Nitrogen Fixation: The Role of Underutilized Leguminous Plants. <i>Microorganisms for Sustainability</i> , 2017 , 431-443	1.1	3
79	Belowground microbes mitigate plant-plant competition. <i>Plant Science</i> , 2017 , 262, 175-181	5.3	7
78	N/P imbalance as a key driver for the invasion of oligotrophic dune systems by a woody legume. <i>Oikos</i> , 2017 , 126,	4	17
77	Nitric Oxide Accumulation: The Evolutionary Trigger for Phytopathogenesis. <i>Frontiers in Microbiology</i> , 2017 , 8, 1947	5.7	10
76	Microbial Socialization Highlights the AMF Effect 2017 , 99-113		
75	Symbiotic lifestyle - 8th International Symbiosis Society (ISS) congress, Lisbon (Portugal), 12-18 July 2015. <i>Symbiosis</i> , 2016 , 68, 1-3	3	1
74	Leaf malate and succinate accumulation are out of phase throughout the development of the CAM plant <i>Ananas comosus</i> . <i>Plant Physiology and Biochemistry</i> , 2016 , 100, 47-51	5.4	6
73	Biochemical and ecophysiological responses to manganese stress by ectomycorrhizal fungus <i>Pisolithus tinctorius</i> and in association with <i>Eucalyptus grandis</i> . <i>Mycorrhiza</i> , 2016 , 26, 475-87	3.9	23

72	Down-regulation of plant defence in a resident spider mite species and its effect upon con- and heterospecifics. <i>Oecologia</i> , 2016 , 180, 161-7	2.9	32
71	Salt tolerance of Beta macrocarpa is associated with efficient osmotic adjustment and increased apoplastic water content. <i>Plant Biology</i> , 2016 , 18, 369-75	3.7	20
70	Metazoan parasites of blue jack mackerel <i>Trachurus picturatus</i> (Perciformes: Carangidae) from Portuguese mainland waters. <i>Journal of Helminthology</i> , 2016 , 90, 410-6	1.6	10
69	Review: Mechanisms of ammonium toxicity and the quest for tolerance. <i>Plant Science</i> , 2016 , 248, 92-101	5.3	183
68	Crop management as a driving force of plant growth promoting rhizobacteria physiology. <i>SpringerPlus</i> , 2016 , 5, 1574		15
67	Plasticity of crassulacean acid metabolism at subtropical latitudes: a pineapple case study. <i>Physiologia Plantarum</i> , 2016 , 156, 29-39	4.6	1
66	Nitrogen and carbon/nitrogen dynamics in arbuscular mycorrhiza: the great unknown. <i>Mycorrhiza</i> , 2015 , 25, 499-515	3.9	50
65	Plant tolerance of ammonium varies between co-existing Mediterranean species. <i>Plant and Soil</i> , 2015 , 395, 243-252	4.2	8
64	How Does Salinity Duration Affect Growth and Productivity of Cultivated Barley?. <i>Agronomy Journal</i> , 2015 , 107, 174-180	2.2	20
63	Environmental and microbial factors influencing methane and nitrous oxide fluxes in Mediterranean cork oak woodlands: trees make a difference. <i>Frontiers in Microbiology</i> , 2015 , 6, 1104	5.7	12
62	Leaf $\delta^{15}N$ as a physiological indicator of the responsiveness of N ₂ -fixing alfalfa plants to elevated [CO ₂], temperature and low water availability. <i>Frontiers in Plant Science</i> , 2015 , 6, 574	6.2	13
61	Consequence of altered nitrogen cycles in the coupled human and ecological system under changing climate: The need for long-term and site-based research. <i>Ambio</i> , 2015 , 44, 178-93	6.5	49
60	Tools for determining critical levels of atmospheric ammonia under the influence of multiple disturbances. <i>Environmental Pollution</i> , 2014 , 188, 88-93	9.3	25
59	Can ammonia tolerance amongst lichen functional groups be explained by physiological responses?. <i>Environmental Pollution</i> , 2014 , 187, 206-9	9.3	23
58	Toxicity of ionic liquids prepared from biomaterials. <i>Chemosphere</i> , 2014 , 104, 51-6	8.4	129
57	Shedding light onto nutrient responses of arbuscular mycorrhizal plants: nutrient interactions may lead to unpredicted outcomes of the symbiosis. <i>Plant Science</i> , 2014 , 221-222, 29-41	5.3	34
56	Ammonium as a driving force of plant diversity and ecosystem functioning: observations based on 5 years' manipulation of N dose and form in a Mediterranean ecosystem. <i>PLoS ONE</i> , 2014 , 9, e92517	3.7	17
55	Nitrogen-fixing bacteria in <i>Eucalyptus globulus</i> plantations. <i>PLoS ONE</i> , 2014 , 9, e111313	3.7	12

54	Early growth of Brazilian tree <i>Dimorphandra wilsonii</i> is also threatened by African grass <i>Urochloa decumbens</i> . <i>Journal of Plant Interactions</i> , 2014 , 9, 92-99	3.8	3
53	The Effects of Atmospheric Nitrogen Deposition on Terrestrial and Freshwater Biodiversity 2014 , 465-480		7
52	Root Growth Model Based on Swarm Intelligence. <i>Soil Biology</i> , 2014 , 57-73	1	1
51	Comparison of methane, nitrous oxide fluxes and CO ₂ respiration rates from a Mediterranean cork oak ecosystem and improved pasture. <i>Plant and Soil</i> , 2014 , 374, 883-898	4.2	16
50	Effects of Increased Nitrogen Availability in Mediterranean Ecosystems: A Case Study in a Natura 2000 Site in Portugal 2014 , 251-258		2
49	Species of Arbuscular Mycorrhizal Fungal Spores can Indicate Increased Nitrogen Availability in Mediterranean-type Ecosystems 2014 , 259-266		2
48	The production and turnover of extramatrical mycelium of ectomycorrhizal fungi in forest soils: role in carbon cycling. <i>Plant and Soil</i> , 2013 , 366, 1-27	4.2	197
47	N-driven changes in a plant community affect leaf-litter traits and may delay organic matter decomposition in a Mediterranean maquis. <i>Soil Biology and Biochemistry</i> , 2013 , 58, 163-171	7.5	25
46	Geophagy by African ungulates: the case of the critically endangered giant sable antelope of Angola (<i>Hippotragus niger variani</i>). <i>African Journal of Ecology</i> , 2013 , 51, 139-146	0.8	11
45	Ammonium nutrition in the halophyte <i>Spartina alterniflora</i> under salt stress: evidence for a priming effect of ammonium?. <i>Plant and Soil</i> , 2013 , 370, 163-173	4.2	51
44	Nitrogen tolerance in the lichen <i>Xanthoria parietina</i> : the sensitive side of a resistant species. <i>Functional Plant Biology</i> , 2013 , 40, 237-243	2.7	16
43	Photosynthesis of <i>Quercus suber</i> is affected by atmospheric NH ₃ generated by multifunctional agrosystems. <i>Tree Physiology</i> , 2013 , 33, 1328-37	4.2	6
42	Plant Nitrogen Use Efficiency May Be Improved Through Symbiosis with <i>Piriformospora indica</i> . <i>Soil Biology</i> , 2013 , 285-293	1	5
41	13 The Symbiotic Fungus <i>Piriformospora indica</i> : Review 2012 , 231-254		31
40	Nodulation in <i>Dimorphandra wilsonii</i> Rizz. (Caesalpinioideae), a threatened species native to the Brazilian Cerrado. <i>PLoS ONE</i> , 2012 , 7, e49520	3.7	25
39	The strength of the biotic compartment in retaining nitrogen additions prevents nitrogen losses from a Mediterranean maquis. <i>Biogeosciences</i> , 2012 , 9, 193-201	4.6	10
38	Critical loads of nitrogen deposition and critical levels of atmospheric ammonia for semi-natural Mediterranean evergreen woodlands. <i>Biogeosciences</i> , 2012 , 9, 1205-1215	4.6	53
37	C allocation to the fungus is not a cost to the plant in ectomycorrhizae. <i>Oikos</i> , 2012 , 121, 449-463	4	52

36	Soil-atmosphere greenhouse gases (CO ₂ , CH ₄ and N ₂ O) exchange in evergreen oak woodland in southern Portugal. <i>Plant, Soil and Environment</i> , 2011 , 57, 471-477	2.2	13
35	Using lichen functional diversity to assess the effects of atmospheric ammonia in Mediterranean woodlands. <i>Journal of Applied Ecology</i> , 2011 , 48, 1107-1116	5.8	78
34	Intra-specific variation in pea responses to ammonium nutrition leads to different degrees of tolerance. <i>Environmental and Experimental Botany</i> , 2011 , 70, 233-243	5.9	46
33	Nitrogen deposition effects on Mediterranean-type ecosystems: an ecological assessment. <i>Environmental Pollution</i> , 2011 , 159, 2265-79	9.3	113
32	Linking N-driven biodiversity changes with soil N availability in a Mediterranean ecosystem. <i>Plant and Soil</i> , 2011 , 341, 125-136	4.2	31
31	Patterns of nitrate reductase activity vary according to the plant functional group in a Mediterranean maquis. <i>Plant and Soil</i> , 2011 , 347, 363-376	4.2	12
30	Do lichens have "memory" of their native nitrogen environment?. <i>Planta</i> , 2011 , 233, 333-42	4.7	10
29	Depletion of the heaviest stable N isotope is associated with NH ₄ ⁺ /NH ₃ toxicity in NH ₄ ⁺ -fed plants. <i>BMC Plant Biology</i> , 2011 , 11, 83	5.3	35
28	Policies for plant diversity conservation on a global scale: a Nitrogen driver analysis. <i>Kew Bulletin</i> , 2010 , 65, 525-528	0.5	2
27	Assessment of Critical Levels of Atmospheric Ammonia for Lichen Diversity in Cork-Oak Woodland, Portugal 2009 , 109-119		18
26	Do reactive oxygen species (ROS) induced by NaCl contribute to ammonium accumulation in <i>Spartina alterniflora</i> ?. <i>Journal of Plant Nutrition and Soil Science</i> , 2009 , 172, 851-860	2.3	8
25	Role of Ammonium to Limit Nitrate Accumulation and to Increase Water Economy in Wild Swiss Chard. <i>Journal of Plant Nutrition</i> , 2009 , 32, 821-836	2.3	14
24	Nitrogen nutrition and antioxidant metabolism in ammonium-tolerant and -sensitive plants. <i>Physiologia Plantarum</i> , 2008 , 132, 359-69	4.6	70
23	Heterogeneity of soil surface ammonium concentration and other characteristics, related to plant specific variability in a Mediterranean-type ecosystem. <i>Environmental Pollution</i> , 2008 , 154, 414-23	9.3	22
22	Arbuscular Mycorrhiza in Physiological and Morphological Adaptations of Mediterranean Plants 2008 , 733-752		2
21	Enzymatic evidence for the key role of arginine in nitrogen translocation by arbuscular mycorrhizal fungi. <i>Plant Physiology</i> , 2007 , 144, 782-92	6.6	110
20	How do Mycorrhizas Affect C and N Relationships in Flooded <i>Aster tripolium</i> Plants?. <i>Plant and Soil</i> , 2006 , 279, 51-63	4.2	41
19	How does glutamine synthetase activity determine plant tolerance to ammonium?. <i>Planta</i> , 2006 , 223, 1068-80	4.7	118

18	Functional aspects of root architecture and mycorrhizal inoculation with respect to nutrient uptake capacity. <i>Mycorrhiza</i> , 2004 , 14, 177-84	3.9	61
17	Nitrogen use efficiency by a slow-growing species as affected by CO2 levels, root temperature, N source and availability. <i>Journal of Plant Physiology</i> , 2003 , 160, 1421-8	3.6	24
16	COMPARISON OF METHODOLOGIES FOR NITRATE DETERMINATION IN PLANTS AND SOILS. <i>Journal of Plant Nutrition</i> , 2002 , 25, 1185-1211	2.3	12
15	Changes in the Morphology of Roots and Leaves of Carob Seedlings Induced by Nitrogen Source and Atmospheric Carbon Dioxide. <i>Annals of Botany</i> , 1997 , 80, 817-823	4.1	20
14	Uptake regions of inorganic nitrogen in roots of carob seedlings. <i>Physiologia Plantarum</i> , 1995 , 95, 167-175	4.6	31
13	Nitrate Reductase Activity in Wheat Seedlings as Affected by NO ₃ ⁻ /NH ₄ ⁺ Ratio and Salinity. <i>Journal of Plant Physiology</i> , 1993 , 142, 531-536	3.6	28
12	Effect of root temperature on carob growth: Nitrate versus ammonium nutrition. <i>Journal of Plant Nutrition</i> , 1993 , 16, 1517-1530	2.3	8
11	Growth and nutrition of carob plants as affected by nitrogen sources. <i>Journal of Plant Nutrition</i> , 1993 , 16, 1-15	2.3	15
10	Nitrogen assimilation and transport in carob plants. <i>Physiologia Plantarum</i> , 1993 , 89, 524-531	4.6	13
9	Interactions between nitrate and ammonium during uptake by carob seedlings and the effect of the form of earlier nitrogen nutrition. <i>Physiologia Plantarum</i> , 1993 , 89, 544-551	4.6	8
8	The effect of nitrogen source on photosynthesis of carob at high CO ₂ concentrations. <i>Physiologia Plantarum</i> , 1993 , 89, 552-556	4.6	12
7	Nitrogen assimilation and transport in carob plants. <i>Physiologia Plantarum</i> , 1993 , 89, 524-531	4.6	15
6	Uptake of ammonium and nitrate by carob (<i>Ceratonia siliqua</i>) as affected by root temperature and inhibitors. <i>Physiologia Plantarum</i> , 1993 , 89, 532-543	4.6	15
5	Interactions between nitrate and ammonium during uptake by carob seedlings and the effect of the form of earlier nitrogen nutrition. <i>Physiologia Plantarum</i> , 1993 , 89, 544-551	4.6	11
4	The effect of nitrogen source on photosynthesis of carob at high CO ₂ concentrations. <i>Physiologia Plantarum</i> , 1993 , 89, 552-556	4.6	14
3	Uptake of ammonium and nitrate by carob (<i>Ceratonia siliqua</i>) as affected by root temperature and inhibitors. <i>Physiologia Plantarum</i> , 1993 , 89, 532-543	4.6	2
2	Nitrate reduction in seedlings of carob (<i>Ceratonia siliqua</i> L.). <i>New Phytologist</i> , 1991 , 119, 413-419	9.8	23
1	The application of plant growth-promoting rhizobacteria in <i>Solanum lycopersicum</i> production in the agricultural system: a review. <i>PeerJ</i> , 10 , e13405	3.1	1

