Cristina Cruz

List of Publications by Year in descending order

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134	3,898	172207	161609
papers	citations	29 h-index	54 g-index

139	139	139	4977
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review: Mechanisms of ammonium toxicity and the quest for tolerance. Plant Science, 2016, 248, 92-101.	1.7	288
2	The production and turnover of extramatrical mycelium of ectomycorrhizal fungi in forest soils: role in carbon cycling. Plant and Soil, 2013, 366, 1-27.	1.8	262
3	Toxicity of ionic liquids prepared from biomaterials. Chemosphere, 2014, 104, 51-56.	4.2	160
4	How does glutamine synthetase activity determine plant tolerance to ammonium?. Planta, 2006, 223, 1068-1080.	1.6	151
5	Nitrogen deposition effects on Mediterranean-type ecosystems: An ecological assessment. Environmental Pollution, 2011, 159, 2265-2279.	3.7	130
6	Enzymatic Evidence for the Key Role of Arginine in Nitrogen Translocation by Arbuscular Mycorrhizal Fungi. Plant Physiology, 2007, 144, 782-792.	2.3	125
7	Agricultural Sustainability: Microbial Biofertilizers in Rhizosphere Management. Agriculture (Switzerland), 2021, 11, 163.	1.4	110
8	Interactive effects of salinity and nitrogen forms on plant growth, photosynthesis and osmotic adjustment in maize. Plant Physiology and Biochemistry, 2019, 139, 171-178.	2.8	99
9	Ecological impacts of atmospheric pollution and interactions with climate change in terrestrial ecosystems of the Mediterranean Basin: Current research and future directions. Environmental Pollution, 2017, 227, 194-206.	3.7	98
10	Using lichen functional diversity to assess the effects of atmospheric ammonia in Mediterranean woodlands. Journal of Applied Ecology, 2011, 48, 1107-1116.	1.9	91
11	Nitrogen nutrition and antioxidant metabolism in ammoniumâ€tolerant and â€sensitive plants. Physiologia Plantarum, 2008, 132, 359-369.	2.6	89
12	C allocation to the fungus is not a cost to the plant in ectomycorrhizae. Oikos, 2012, 121, 449-463.	1.2	69
13	Nitrogen and carbon/nitrogen dynamics in arbuscular mycorrhiza: the great unknown. Mycorrhiza, 2015, 25, 499-515.	1.3	69
14	Functional aspects of root architecture and mycorrhizal inoculation with respect to nutrient uptake capacity. Mycorrhiza, 2004, 14, 177-184.	1.3	68
15	Ammonium nutrition in the halophyte Spartina alterniflora under salt stress: evidence for a priming effect of ammonium?. Plant and Soil, 2013, 370, 163-173.	1.8	68
16	Consequence of altered nitrogen cycles in the coupled human and ecological system under changing climate: The need for long-term and site-based research. Ambio, 2015, 44, 178-193.	2.8	63
17	Critical loads of nitrogen deposition and critical levels of atmospheric ammonia for semi-natural Mediterranean evergreen woodlands. Biogeosciences, 2012, 9, 1205-1215.	1.3	58
18	Down-regulation of plant defence in a resident spider mite species and its effect upon con- and heterospecifics. Oecologia, 2016, 180, 161-167.	0.9	58

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19	Current Advances in Plant Growth Promoting Bacteria Alleviating Salt Stress for Sustainable Agriculture. Applied Sciences (Switzerland), 2020, 10, 7025.	1.3	57
20	13 The Symbiotic Fungus Piriformospora indica: Review. , 2012, , 231-254.		55
21	Intra-specific variation in pea responses to ammonium nutrition leads to different degrees of tolerance. Environmental and Experimental Botany, 2011, 70, 233-243.	2.0	53
22	How do Mycorrhizas Affect C and N Relationships in Flooded Aster tripolium Plants?. Plant and Soil, 2006, 279, 51-63.	1.8	47
23	Shedding light onto nutrient responses of arbuscular mycorrhizal plants: Nutrient interactions may lead to unpredicted outcomes of the symbiosis. Plant Science, 2014, 221-222, 29-41.	1.7	46
24	Depletion of the heaviest stable N isotope is associated with NH4+/NH3 toxicity in NH4+-fed plants. BMC Plant Biology, 2011, 11, 83.	1.6	41
25	Nodulation in Dimorphandra wilsonii Rizz. (Caesalpinioideae), a Threatened Species Native to the Brazilian Cerrado. PLoS ONE, 2012, 7, e49520.	1.1	38
26	Biochemical and ecophysiological responses to manganese stress by ectomycorrhizal fungus Pisolithus tinctorius and in association with Eucalyptus grandis. Mycorrhiza, 2016, 26, 475-487.	1.3	38
27	Linking N-driven biodiversity changes with soil N availability in a Mediterranean ecosystem. Plant and Soil, 2011, 341, 125-136.	1.8	37
28	Uptake regions of inorganic nitrogen in roots of carob seedlings. Physiologia Plantarum, 1995, 95, 167-175.	2.6	35
29	Nitrogen isotope signature evidences ammonium deprotonation as a common transport mechanism for the AMT-Mep-Rh protein superfamily. Science Advances, 2018, 4, eaar3599.	4.7	33
30	Nitrate Reductase Activity in Wheat Seedlings as Affected by NO3-/NH4+ Ratio and Salinity. Journal of Plant Physiology, 1993, 142, 531-536.	1.6	32
31	N-driven changes in a plant community affect leaf-litter traits and may delay organic matter decomposition in a Mediterranean maquis. Soil Biology and Biochemistry, 2013, 58, 163-171.	4.2	30
32	Heterogeneity of soil surface ammonium concentration and other characteristics, related to plant specific variability in a Mediterranean-type ecosystem. Environmental Pollution, 2008, 154, 414-423.	3.7	29
33	Tools for determining critical levels of atmospheric ammonia under the influence of multiple disturbances. Environmental Pollution, 2014, 188, 88-93.	3.7	29
34	How Does Salinity Duration Affect Growth and Productivity of Cultivated Barley?. Agronomy Journal, 2015, 107, 174-180.	0.9	28
35	Nitrogen use efficiency by a slow-growing species as affected by CO2 levels, root temperature, N source and availability. Journal of Plant Physiology, 2003, 160, 1421-1428.	1.6	27
36	Can ammonia tolerance amongst lichen functional groups be explained by physiological responses?. Environmental Pollution, 2014, 187, 206-209.	3.7	27

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37	Salt tolerance of <scp>B</scp>eta macrocarpa is associated with efficient osmotic adjustment and increased apoplastic water content. Plant Biology, 2016, 18, 369-375.	1.8	27
38	Introduction to Mycorrhiza: Historical Development. , 2017, , 1-7.		27
39	Arbuscular mycorrhizal fungi in soil, roots and rhizosphere ofMedicago truncatula: diversity and heterogeneity under semi-arid conditions. PeerJ, 2019, 7, e6401.	0.9	27
40	Sustainable urban agriculture using compost and an open-pollinated maize variety. Journal of Cleaner Production, 2019, 212, 622-629.	4.6	26
41	Changes in the Morphology of Roots and Leaves of Carob Seedlings Induced by Nitrogen Source and Atmospheric Carbon Dioxide. Annals of Botany, 1997, 80, 817-823.	1.4	25
42	Nitric Oxide Accumulation: The Evolutionary Trigger for Phytopathogenesis. Frontiers in Microbiology, 2017, 8, 1947.	1.5	25
43	Drought stress obliterates the preference for ammonium as an N source in the C 4 plant Spartina alterniflora. Journal of Plant Physiology, 2017, 213, 98-107.	1.6	24
44	Nitrate reduction in seedlings of carob (Ceratonia siliqua L.). New Phytologist, 1991, 119, 413-419.	3.5	23
45	Assessment of Critical Levels of Atmospheric Ammonia for Lichen Diversity in Cork-Oak Woodland, Portugal. , 2009, , 109-119.		23
46	Inoculation With Piriformospora indica Is More Efficient in Wild-Type Rice Than in Transgenic Rice Over-Expressing the Vacuolar H+-PPase. Frontiers in Microbiology, 2019, 10, 1087.	1.5	23
47	Arbuscular mycorrhizal traits are good indicators of soil multifunctionality in drylands. Geoderma, 2021, 397, 115099.	2.3	23
48	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. PLoS ONE, 2014, 9, e92517.	1.1	22
49	Crop management as a driving force of plant growth promoting rhizobacteria physiology. SpringerPlus, 2016, 5, 1574.	1.2	22
50	N/P imbalance as a key driver for the invasion of oligotrophic dune systems by a woody legume. Oikos, 2017, 126, .	1.2	22
51	Nitrogen tolerance in the lichen Xanthoria parietina: the sensitive side of a resistant species. Functional Plant Biology, 2013, 40, 237.	1.1	20
52	The cost of surviving nitrogen excess: energy and protein demand in the lichen Cladonia portentosa as revealed by proteomic analysis. Planta, 2017, 245, 819-833.	1.6	20
53	Inoculation with the endophytic bacterium Herbaspirillum seropedicae promotes growth, nutrient uptake and photosynthetic efficiency in rice. Planta, 2020, 252, 87.	1.6	20
54	Foliar application of wood distillate boosts plant yield and nutritional parameters of chickpea. Annals of Applied Biology, 2023, 182, 57-64.	1.3	20

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55	The effect of nitrogen source on photosynthesis of carob at high CO2 concentrations. Physiologia Plantarum, 1993, 89, 552-556.	2.6	19
56	Growth and nutrition of carob plants as affected by nitrogen sources. Journal of Plant Nutrition, 1993, 16, 1-15.	0.9	19
57	COMPARISON OF METHODOLOGIES FOR NITRATE DETERMINATION IN PLANTS AND SOILS. Journal of Plant Nutrition, 2002, 25, 1185-1211.	0.9	19
58	Leaf Î´15N as a physiological indicator of the responsiveness of N2-fixing alfalfa plants to elevated [CO2], temperature and low water availability. Frontiers in Plant Science, 2015, 6, 574.	1.7	19
59	New strategies to overcome water limitation in cultivated maize: Results from sub-surface irrigation and silicon fertilization. Journal of Environmental Management, 2020, 263, 110398.	3.8	19
60	Uptake of ammonium and nitrate by carob (Ceratonia siliqua) as affected by root temperature and inhibitors. Physiologia Plantarum, 1993, 89, 532-543.	2.6	18
61	The application of plant growth-promoting rhizobacteria in Solanum lycopersicum production in the agricultural system: a review. PeerJ, 0, 10, e13405.	0.9	18
62	Nitrogen assimilation and transport in carob plants. Physiologia Plantarum, 1993, 89, 524-531.	2.6	17
63	Comparison of methane, nitrous oxide fluxes and CO2 respiration rates from a Mediterranean cork oak ecosystem and improved pasture. Plant and Soil, 2014, 374, 883-898.	1.8	17
64	Arbuscular mycorrhizal fungal species differ in their capacity to overrule the soilâ€™s legacy from maize monocropping. Applied Soil Ecology, 2018, 125, 177-183.	2.1	17
65	Transformation of organic and inorganic sulfurâ€“ adding perspectives to new players in soil and rhizosphere. Soil Biology and Biochemistry, 2021, 160, 108306.	4.2	16
66	Role of Ammonium to Limit Nitrate Accumulation and to Increase Water Economy in Wild Swiss Chard. Journal of Plant Nutrition, 2009, 32, 821-836.	0.9	15
67	Soil-atmosphere greenhouse gases (CO₂, CH₄ and) Tj ETQq1 1 0.784314 rgBT /Overlo and Environment, 2011, 57, 471-477.	1.0	15
68	Patterns of nitrate reductase activity vary according to the plant functional group in a Mediterranean maquis. Plant and Soil, 2011, 347, 363-376.	1.8	15
69	Environmental and microbial factors influencing methane and nitrous oxide fluxes in Mediterranean cork oak woodlands: trees make a difference. Frontiers in Microbiology, 2015, 6, 1104.	1.5	15
70	Conventional farming disrupts cooperation among phosphate solubilising bacteria isolated from Carica papayaâ€™s rhizosphere. Applied Soil Ecology, 2018, 124, 284-288.	2.1	15
71	Î´15N of lichens reflects the isotopic signature of ammonia source. Science of the Total Environment, 2019, 653, 698-704.	3.9	15
72	Do lichens have â€œmemoryâ€•of their native nitrogen environment?. Planta, 2011, 233, 333-342.	1.6	14

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73	Nitrogen inputs may improve soil biocrusts multifunctionality in dryland ecosystems. Soil Biology and Biochemistry, 2020, 149, 107947.	4.2	14
74	Interactions between nitrate and ammonium during uptake by carob seedlings and the effect of the form of earlier nitrogen nutrition. Physiologia Plantarum, 1993, 89, 544-551.	2.6	13
75	Nitrogen assimilation and transport in carob plants. Physiologia Plantarum, 1993, 89, 524-531.	2.6	13
76	The strength of the biotic compartment in retaining nitrogen additions prevents nitrogen losses from a Mediterranean maquis. Biogeosciences, 2012, 9, 193-201.	1.3	13
77	Nitrogen-Fixing Bacteria in Eucalyptus globulus Plantations. PLoS ONE, 2014, 9, e111313.	1.1	13
78	The effect of nitrogen source on photosynthesis of carob at high CO2 concentrations. Physiologia Plantarum, 1993, 89, 552-556.	2.6	12
79	Do reactive oxygen species (ROS) induced by NaCl contribute to ammonium accumulation in Spartina alterniflora?. Journal of Plant Nutrition and Soil Science, 2009, 172, 851-860.	1.1	12
80	Geophagy by <scp>A</scp>frican ungulates: the case of the critically endangered giant sable antelope of <scp>A</scp>ngola (<scp>H</scp>ippotragus niger variani). African Journal of Ecology, 2013, 51, 139-146.	0.4	12
81	Intra- and inter-specific variations in chitin in lichens along a N-deposition gradient. Environmental Science and Pollution Research, 2017, 24, 28065-28071.	2.7	12
82	Microbial consortium increases maize productivity and reduces grain phosphorus concentration under field conditions. Saudi Journal of Biological Sciences, 2021, 28, 232-237.	1.8	12
83	Effect of root temperature on carob growth: Nitrate versus ammonium nutrition. Journal of Plant Nutrition, 1993, 16, 1517-1530.	0.9	11
84	Plant Nitrogen Use Efficiency May Be Improved Through Symbiosis with Piriformospora indica. Soil Biology, 2013, , 285-293.	0.6	11
85	Belowground microbes mitigate plant-plant competition. Plant Science, 2017, 262, 175-181.	1.7	11
86	When the exception becomes the rule: An integrative approach to symbiosis. Science of the Total Environment, 2019, 672, 855-861.	3.9	11
87	The distribution of herbivores between leaves matches their performance only in the absence of competitors. Ecology and Evolution, 2020, 10, 8405-8415.	0.8	11
88	Does Arbuscular Mycorrhiza Determine Soil Microbial Functionality in Nutrient-Limited Mediterranean Arid Ecosystems?. Diversity, 2020, 12, 234.	0.7	11
89	Drought and salinity: A comparison of their effects on the ammoniumâ€preferring species <scp>Spartina alterniflora</scp>. Physiologia Plantarum, 2021, 172, 431-440.	2.6	11
90	Spectra Fusion of Mid-Infrared (MIR) and X-ray Fluorescence (XRF) Spectroscopy for Estimation of Selected Soil Fertility Attributes. Sensors, 2022, 22, 3459.	2.1	11

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91	The Effects of Atmospheric Nitrogen Deposition on Terrestrial and Freshwater Biodiversity. , 2014, , 465-480.		10
92	Plant tolerance of ammonium varies between co-existing Mediterranean species. Plant and Soil, 2015, 395, 243-252.	1.8	10
93	Metazoan parasites of blue jack mackerelTrachurus picturatus(Perciformes: Carangidae) from Portuguese mainland waters. Journal of Helminthology, 2016, 90, 410-416.	0.4	10
94	Extracts from Marine Macroalgae and Opuntia ficus-indica Cladodes Enhance Halotolerance and Enzymatic Potential of Diazotrophic Rhizobacteria and Their Impact on Wheat Germination Under Salt Stress. Pedosphere, 2018, 28, 241-254.	2.1	10
95	The Free-Living Stage Growth Conditions of the Endophytic Fungus Serendipita indica May Regulate Its Potential as Plant Growth Promoting Microbe. Frontiers in Microbiology, 2020, 11, 562238.	1.5	10
96	How to Outgrow Your Native Neighbour? Belowground Changes under Native Shrubs at an Early Stage of Invasion. Land Degradation and Development, 2017, 28, 2380-2388.	1.8	9
97	The Adaptive Power of Ammophila arenaria: Biomimetic Study, Systematic Observation, Parametric Design and Experimental Tests with Bimetal. Polymers, 2021, 13, 2554.	2.0	9
98	Interactions between nitrate and ammonium during uptake by carob seedlings and the effect of the form of earlier nitrogen nutrition. Physiologia Plantarum, 1993, 89, 544-551.	2.6	8
99	Leaf malate and succinate accumulation are out of phase throughout the development of the CAM plant Ananas comosus. Plant Physiology and Biochemistry, 2016, 100, 47-51.	2.8	8
100	N fertilization in a Mediterranean ecosystem alters N and P turnover in soil, roots and the ectomycorrhizal community. Soil Biology and Biochemistry, 2017, 113, 60-70.	4.2	8
101	Alleviating Nitrogen Limitation in Mediterranean Maquis Vegetation Leads to Ecological Degradation. Land Degradation and Development, 2017, 28, 2482-2492.	1.8	8
102	Recent Trends in Microbial Approaches for Soil Desalination. Applied Sciences (Switzerland), 2022, 12, 3586.	1.3	8
103	Multiple modes of action are needed to unlock soil phosphorus fractions unavailable for plants: The example of bacteria- and fungi-based biofertilizers. Applied Soil Ecology, 2022, 178, 104550.	2.1	8
104	Unveiling the hidden interaction between thermophiles and plant crops: wheat and soil thermophilic bacteria. Journal of Plant Interactions, 2020, 15, 127-138.	1.0	7
105	An Optimized in situ Quantification Method of Leaf H2O2 Unveils Interaction Dynamics of Pathogenic and Beneficial Bacteria in Wheat. Frontiers in Plant Science, 2020, 11, 889.	1.7	7
106	Resilience of Epiphytic Lichens to Combined Effects of Increasing Nitrogen and Solar Radiation. Journal of Fungi (Basel, Switzerland), 2021, 7, 333.	1.5	7
107	Nitrogen Deposition Effects on Soil Properties, Microbial Abundance, and Litter Decomposition Across Three Shrublands Ecosystems From the Mediterranean Basin. Frontiers in Environmental Science, 2021, 9, .	1.5	7
108	Womenâ€™s Empowerment, Research, and Management: Their Contribution to Social Sustainability. Sustainability, 2021, 13, 12754.	1.6	7

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109	Photosynthesis of Quercus suber is affected by atmospheric NH3 generated by multifunctional agrosystems. Tree Physiology, 2013, 33, 1328-1337.	1.4	6
110	Biological Nitrogen Fixation: The Role of Underutilized Leguminous Plants. Microorganisms for Sustainability, 2017, , 431-443.	0.4	6
111	More tolerant than expected: Taking into account the ability of Cladonia portentosa to cope with increased nitrogen availability in environmental policy. Ecological Indicators, 2020, 119, 106817.	2.6	6
112	Early growth of Brazilian tree Dimorphandra wilsonii is also threatened by African grass Urochloa decumbens. Journal of Plant Interactions, 2014, 9, 92-99.	1.0	5
113	Effects of Goussia infecting the blue whiting and phylogenetic placement of Goussia infecting marine fish off Northern Portugal. Parasitology Research, 2020, 119, 2139-2147.	0.6	5
114	Potential Piriformospora indica effect on growth and mineral nutrition of Phaseolus vulgaris crop under low phosphorus intake. Journal of Plant Nutrition, 2021, 44, 498-507.	0.9	4
115	Uptake regions of inorganic nitrogen in roots of carob seedlings. Physiologia Plantarum, 1995, 95, 167-175.	2.6	4
116	Microbial communities. Journal of Soils and Sediments, 2007, 7, 398-398.	1.5	3
117	Policies for plant diversity conservation on a global scale: a Nitrogen driver analysis. Kew Bulletin, 2010, 65, 525-528.	0.4	3
118	Soil: Do Not Disturb, Mycorrhiza in Action. , 2017, , 27-38.		3
119	Plasma membrane H+ pump at a crossroads of acidic and iron stresses in yeast-to-hypha transition. Metallomics, 2020, 12, 2174-2185.	1.0	3
120	Achromobacter xylosoxidans and Enteromorpha intestinalis Extract Improve Tomato Growth under Salt Stress. Agronomy, 2022, 12, 934.	1.3	3
121	Arbuscular Mycorrhiza in Physiological and Morphological Adaptations of Mediterranean Plants. , 2008, , 733-752.		2
122	Plasticity of crassulacean acid metabolism at subtropical latitudes: a pineapple case study. Physiologia Plantarum, 2016, 156, 29-39.	2.6	2
123	Phylogenetic Affinities and Infection Patterns of Goussia Infecting Sardina pilchardus from the NE Atlantic. Acta Parasitologica, 2021, 66, 693-698.	0.4	2
124	Species of Arbuscular Mycorrhizal Fungal Spores can Indicate Increased Nitrogen Availability in Mediterranean-type Ecosystems. , 2014, , 259-266.		2
125	Uptake of ammonium and nitrate by carob (Ceratonia siliqua) as affected by root temperature and inhibitors. Physiologia Plantarum, 1993, 89, 532-543.	2.6	2
126	Non-Toxic Increases in Nitrogen Availability Can Improve the Ability of the Soil Lichen Cladonia rangiferina to Cope with Environmental Changes. Journal of Fungi (Basel, Switzerland), 2022, 8, 333.	1.5	2

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127	Modulation of the Wheat Seed-Borne Bacterial Community by Herbaspirillum seropedicae RAM10 and Its Potential Effects for Tryptophan Metabolism in the Root Endosphere. Frontiers in Microbiology, 2021, 12, 792921.	1.5	2
128	Integrating Ecological Principles for Addressing Plant Production Security and Move beyond the Dichotomy â€˜Good or Badâ€™ for Nitrogen Inputs Choice. Agronomy, 2022, 12, 1632.	1.3	2
129	Root Growth Model Based on Swarm Intelligence. Soil Biology, 2014, , 57-73.	0.6	1
130	Symbiotic lifestyle - 8th International Symbiosis Society (ISS) congress, Lisbon (Portugal), 12â€“18 July 2015. Symbiosis, 2016, 68, 1-3.	1.2	1
131	Use of Symbiotic Fungi to Reduce the Phytotoxic Effect of DCD Nitrification Inhibitors in Lettuce. Agriculture (Switzerland), 2022, 12, 251.	1.4	1
132	Iron Toxicity and Its Relation to Nitrogen and Phosphorus Availability in Ectomycorrhizal Fungi. Soil Biology, 2021, , 459-479.	0.6	0
133	Microbial Socialization Highlights the AMF Effect. , 2017, , 99-113.		0
134	Symbiosis Between Sebacinales and Aloe vera. , 2019, , 349-373.		0