Pablo Cornejo

List of Publications by Year
in descending order

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106	4,033	117453	138251
papers	citations	34 h-index	58 g-index

109	109	109	3671
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glomalin-related soil protein in a Mediterranean ecosystem affected by a copper smelter and its contribution to Cu and Zn sequestration. Science of the Total Environment, 2008, 406, 154-160.	3.9	218
2	Phytoremediation of Metal-Polluted Soils by Arbuscular Mycorrhizal Fungi. Critical Reviews in Environmental Science and Technology, 2012, 42, 741-775.	6.6	190
3	Ecological and functional roles of mycorrhizas in semi-arid ecosystems of Southeast Spain. Journal of Arid Environments, 2011, 75, 1292-1301.	1.2	175
4	Meta-analysis of heavy metal effects on soil enzyme activities. Science of the Total Environment, 2020, 737, 139744.	3.9	152
5	The role of arbuscular mycorrhizas in decreasing aluminium phytotoxicity in acidic soils: a review. Mycorrhiza, 2013, 23, 167-183.	1.3	137
6	Arbuscular mycorrhiza effects on plant performance under osmotic stress. Mycorrhiza, 2017, 27, 639-657.	1.3	113
7	Effects of different tillage system on arbuscular mycorrhizal fungal propagules and physical properties in a Mediterranean agroecosystem in central Chile. Soil and Tillage Research, 2011, 113, 11-18.	2.6	112
8	Influence of copper on root exudate patterns in some metallophytes and agricultural plants. Ecotoxicology and Environmental Safety, 2012, 75, 8-15.	2.9	112
9	Copper compartmentalization in spores as a survival strategy of arbuscular mycorrhizal fungi in Cu-polluted environments. Soil Biology and Biochemistry, 2013, 57, 925-928.	4.2	110
10	Enhanced selenium content in wheat grain by co-inoculation of selenobacteria and arbuscular mycorrhizal fungi: A preliminary study as a potential Se biofortification strategy. Journal of Cereal Science, 2013, 57, 275-280.	1.8	102
11	Crop residue stabilization and application to agricultural and degraded soils: A review. Waste Management, 2015, 42, 41-54.	3.7	98
12	Chicken-manure-derived biochar reduced bioavailability of copper in a contaminated soil. Journal of Soils and Sediments, 2017, 17, 741-750.	1.5	92
13	Phosphorus Acquisition Efficiency Related to Root Traits: Is Mycorrhizal Symbiosis a Key Factor to Wheat and Barley Cropping?. Frontiers in Plant Science, 2018, 9, 752.	1.7	89
14	Distribution of chromium species in a Cr-polluted soil: Presence of Cr(III) in glomalin related protein fraction. Science of the Total Environment, 2014, 493, 828-833.	3.9	85
15	Alleviation of Cu toxicity in Oenothera picensis by copper-adapted arbuscular mycorrhizal fungi and treated agrowaste residue. Applied Soil Ecology, 2011, 48, 117-124.	2.1	84
16	Removal of nutrients from domestic wastewater by microalgae coupled to lipid augmentation for biodiesel production and influence of deoiled algal biomass as biofertilizer for Solanum lycopersicum cultivation. Chemosphere, 2021, 268, 129323.	4.2	77
17	Temporal temperature gradient gel electrophoresis (TTGE) as a tool for the characterization of arbuscular mycorrhizal fungi. FEMS Microbiology Letters, 2004, 241, 265-270.	0.7	72
18	Fluorescence detection of aluminum in arbuscular mycorrhizal fungal structures and glomalin using confocal laser scanning microscopy. Soil Biology and Biochemistry, 2011, 43, 2427-2431.	4.2	71

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19	Effects of biochar on copper immobilization and soil microbial communities in a metal-contaminated soil. Journal of Soils and Sediments, 2017, 17, 1237-1250.	1.5	69
20	Arbuscular Mycorrhizal Colonization Promotes the Tolerance to Salt Stress in Lettuce Plants through an Efficient Modification of Ionic Balance. Journal of Soil Science and Plant Nutrition, 2019, 19, 321-331.	1.7	68
21	Role of plant growthâ€“promoting rhizobacterial consortium in improving the Vigna radiata growth and alleviation of aluminum and drought stresses. Environmental Science and Pollution Research, 2019, 26, 27647-27659.	2.7	61
22	Efficiency of two arbuscular mycorrhizal fungal inocula to improve saline stress tolerance in lettuce plants by changes of antioxidant defense mechanisms. Journal of the Science of Food and Agriculture, 2020, 100, 1577-1587.	1.7	55
23	Diversity of arbuscular mycorrhizal fungi associated with Triticum aestivum L. plants growing in an Andosol with high aluminum level. Agriculture, Ecosystems and Environment, 2014, 186, 178-184.	2.5	53
24	Interactive effect between Cuâ€adapted arbuscular mycorrhizal fungi and biotreated agrowaste residue to improve the nutritional status of Oenothera picensis growing in Cuâ€polluted soils. Journal of Plant Nutrition and Soil Science, 2015, 178, 126-135.	1.1	52
25	Evaluation of the production of exopolysaccharide by plant growth promoting yeast Rhodotorula sp. strain CAH2 under abiotic stress conditions. International Journal of Biological Macromolecules, 2019, 121, 55-62.	3.6	50
26	Interactions between the arbuscular mycorrhizal fungus Glomus intraradices and the plant growth promoting rhizobacteria Paenibacillus polymyxa and P. macerans in the mycorrhizosphere of Cucumis sativus. Soil Biology and Biochemistry, 2009, 41, 286-292.	4.2	49
27	Effect of fertilization and arbuscular mycorrhizal fungal inoculation on antioxidant profiles and activities in Fragaria ananassa fruit. Journal of the Science of Food and Agriculture, 2019, 99, 1397-1404.	1.7	46
28	Simultaneous mitigation of aluminum, salinity and drought stress in Lactuca sativa growth via formulated plant growth promoting Rhodotorula mucilaginosa CAM4. Ecotoxicology and Environmental Safety, 2019, 180, 63-72.	2.9	44
29	Soil quality indices for metal(loid) contamination: An enzymatic perspective. Land Degradation and Development, 2020, 31, 2700-2719.	1.8	44
30	Effects of arbuscular mycorrhizal inoculation on metallophyte and agricultural plants growing at increasing copper levels. Applied Soil Ecology, 2012, 61, 280-287.	2.1	43
31	Rhizophagus clarus and phosphate alter the physiological responses of Crotalaria juncea cultivated in soil with a high Cu level. Applied Soil Ecology, 2015, 91, 37-47.	2.1	42
32	Role of Curtobacterium herbarum strain CAH5 on aluminum bioaccumulation and enhancement of Lactuca sativa growth under aluminum and drought stresses. Ecotoxicology and Environmental Safety, 2019, 183, 109573.	2.9	41
33	Phosphate acquisition efficiency in wheat is related to root:shoot ratio, strigolactone levels, and PHO2 regulation. Journal of Experimental Botany, 2019, 70, 5631-5642.	2.4	40
34	Effect of Compost Application on Some Properties of a Volcanic Soil from Central South Chile. Chilean Journal of Agricultural Research, 2009, 69, .	0.4	38
35	Microscopic and spectroscopic characterization of humic substances from a compost amended copper contaminated soil: main features and their potential effects on Cu immobilization. Environmental Science and Pollution Research, 2017, 24, 14104-14116.	2.7	38
36	Selection of aluminum tolerant cereal genotypes strongly influences the arbuscular mycorrhizal fungal communities in an acidic Andosol. Agriculture, Ecosystems and Environment, 2017, 246, 86-93.	2.5	35

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37	Aquaporins and cation transporters are differentially regulated by two arbuscular mycorrhizal fungi strains in lettuce cultivars growing under salinity conditions. Plant Physiology and Biochemistry, 2021, 158, 396-409.	2.8	35
38	Temporal dynamics of arbuscular mycorrhizal fungi colonizing roots of representative shrub species in a semi-arid Mediterranean ecosystem. Mycorrhiza, 2012, 22, 449-460.	1.3	34
39	TILLAGE EFFECT ON SOIL ORGANIC MATTER, MYCORRHIZAL HYPHAE AND AGGREGATES IN A MEDITERRANEAN AGROECOSYSTEM. Revista De La Ciencia Del Suelo Y Nutricion Vegetal, 2010, 10, .	0.4	32
40	Role of arbuscular mycorrhizal symbiosis in phosphorus-uptake efficiency and aluminium tolerance in barley growing in acid soils. Crop and Pasture Science, 2015, 66, 696.	0.7	32
41	Alteration of enzyme activities and functional diversity of a soil contaminated with copper and arsenic. Ecotoxicology and Environmental Safety, 2020, 192, 110264.	2.9	32
42	Enzyme activities and microbial functional diversity in metal(loid) contaminated soils near to a copper smelter. Science of the Total Environment, 2021, 779, 146423.	3.9	30
43	ARBUSCULAR MYCORRHIZAE IN AGRICULTURAL AND FOREST ECOSYSTEMS IN CHILE. Journal of Soil Science and Plant Nutrition, 2010, 10, .	1.7	29
44	Phosphorus acquisition by three wheat cultivars contrasting in aluminium tolerance growing in an aluminium-rich volcanic soil. Crop and Pasture Science, 2017, 68, 305.	0.7	27
45	Pseudomonas citronellolis strain SLP6 enhances the phytoremediation efficiency of Helianthus annuus in copper contaminated soils under salinity stress. Plant and Soil, 2020, 457, 241-253.	1.8	27
46	Antioxidant Responses of Phenolic Compounds and Immobilization of Copper in Imperata cylindrica, a Plant with Potential Use for Bioremediation of Cu Contaminated Environments. Plants, 2020, 9, 1397.	1.6	27
47	Polyhydroxybutyrate production from ultrasound-aided alkaline pretreated finger millet straw using Bacillus megaterium strain CAM12. Bioresource Technology, 2021, 325, 124632.	4.8	27
48	Aluminum tolerance of wheat cultivars and relation to arbuscular mycorrhizal colonization in a non-limed and limed Andisol. Applied Soil Ecology, 2016, 108, 228-237.	2.1	26
49	Mineral phosphorus fertilization modulates interactions between maize, rhizosphere yeasts and arbuscular mycorrhizal fungi. Rhizosphere, 2017, 4, 89-93.	1.4	26
50	Effects of the co-inoculation with saprobe and mycorrhizal fungi on Vaccinium corymbosum growth and some soil enzymatic activities. Journal of Soil Science and Plant Nutrition, 2012, 12, 283-294.	1.7	25
51	Inoculation with selenobacteria and arbuscular mycorrhizal fungi to enhance selenium content in lettuce plants and improve tolerance against drought stress. Journal of Soil Science and Plant Nutrition, 2016, , 0-0.	1.7	25
52	Effect of the frying process on the composition of hydroxycinnamic acid derivatives and antioxidant activity in flesh colored potatoes. Food Chemistry, 2018, 268, 577-584.	4.2	25
53	Synergy effect of peroxidase enzymes and Fenton reactions greatly increase the anaerobic oxidation of soil organic matter. Scientific Reports, 2020, 10, 11289.	1.6	25
54	Interactive effect of compost application and inoculation with the fungus Claroideoglomus claroideum in Oenothera picensis plants growing in mine tailings. Ecotoxicology and Environmental Safety, 2021, 208, 111495.	2.9	25

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55	Revisiting the Nature of Phosphorus Pools in Chilean Volcanic Soils as a Basis for Arbuscular Mycorrhizal Management in Plant P Acquisition. Journal of Soil Science and Plant Nutrition, 2019, 19, 390-401.	1.7	24
56	Influence of nitrogen source on the viability, functionality and persistence of Glomus etunicatum fungal propagules in an Andisol. Applied Soil Ecology, 2007, 35, 423-431.	2.1	21
57	Stability of phenolic compounds, antioxidant activity and colour parameters of a coloured extract obtained from coloured-flesh potatoes. LWT - Food Science and Technology, 2021, 136, 110370.	2.5	20
58	Salinity Eustress Increases the Biosynthesis and Accumulation of Phenolic Compounds That Improve the Functional and Antioxidant Quality of Red Lettuce. Agronomy, 2022, 12, 598.	1.3	20
59	Amelioration of aluminum phytotoxicity in Solanum lycopersicum by co-inoculation of plant growth promoting Kosakonia radicincitans strain CABV2 and Streptomyces corchorusii strain CASL5. Science of the Total Environment, 2022, 832, 154935.	3.9	20
60	Mycorrhizal Effectiveness on Wheat Nutrient Acquisition in an Acidic Soil from Southern Chile as Affected by Nitrogen Sources. Journal of Plant Nutrition, 2008, 31, 1555-1569.	0.9	19
61	Changes in the content of anthocyanins, flavonols, and antioxidant activity in Fragaria ananassa var. Camarosa fruits under traditional and organic fertilization. Journal of the Science of Food and Agriculture, 2019, 99, 2404-2410.	1.7	19
62	Wheat root trait plasticity, nutrient acquisition and growth responses are dependent on specific arbuscular mycorrhizal fungus and plant genotype interactions. Journal of Plant Physiology, 2021, 256, 153297.	1.6	19
63	Mycorrhizal Propagule Persistence in a Succession of Cereals in a Disturbed and Undisturbed Andisol Fertilized with Two Nitrogen Sources. Chilean Journal of Agricultural Research, 2009, 69, .	0.4	19
64	Influence of saprophytic fungi and inorganic additives on enzyme activities and chemical properties of the biodegradation process of wheat straw for the production of organo-mineral amendments. Journal of Environmental Management, 2020, 255, 109922.	3.8	18
65	Plant growth-promoting actinobacterial inoculant assisted phytoremediation increases cadmium uptake in Sorghum bicolor under drought and heat stresses. Environmental Pollution, 2022, 307, 119489.	3.7	17
66	Effects of Soil Aluminum on Early Arbuscular Mycorrhizal Colonization of Wheat an Barley Cultivars Growing in an Andisol. Chilean Journal of Agricultural Research, 2012, 72, 449-455.	0.4	16
67	CHLSOC: the Chilean Soil Organic Carbon database, a multi-institutional collaborative effort. Earth System Science Data, 2020, 12, 457-468.	3.7	16
68	New evidences on the contribution of arbuscular mycorrhizal fungi inducing Al tolerance in wheat. Rhizosphere, 2018, 5, 43-50.	1.4	15
69	Cultivation of Nostoc sp. LS04 in municipal wastewater for biodiesel production and their deoiled biomass cellular extracts as biostimulants for Lactuca sativa growth improvement. Chemosphere, 2021, 280, 130644.	4.2	15
70	Influence of inorganic additives on wheat straw composting: Characterization and structural composition of organic matter derived from the process. Journal of Environmental Management, 2020, 260, 110137.	3.8	14
71	Effect of Inoculation with Arbuscular Mycorrhizal Fungi and Fungicide Application on the Secondary Metabolism of Solanum tuberosum Leaves. Plants, 2022, 11, 278.	1.6	14
72	Influence of an organic amendment comprising saprophytic and mycorrhizal fungi on soil quality and growth ofEucalyptus globulusin the presence of sewage sludge contaminated with aluminium. Archives of Agronomy and Soil Science, 2014, 60, 1229-1248.	1.3	13

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73	Diversity of Arbuscular Mycorrhizal Fungi in Acidic Soils and Their Contribution to Aluminum Phytotoxicity Alleviation. Signaling and Communication in Plants, 2015, , 203-228.	0.5	13
74	Biodegradation of 4-nitroaniline by novel isolate Bacillus sp. strain AVPP64 in the presence of pesticides. Environmental Pollution, 2022, 306, 119453.	3.7	13
75	<I>Corymbiglomus pacificum</I>, a new glomeromycete from a saline lakeshore in Chile. Mycotaxon, 2014, 127, 173-183.	0.1	12
76	Influence of Organic and Chemical Fertilisation on Antioxidant Compounds Profiles and Activities in Fruits of Fragaria ananassa var. Camarosa. Journal of Soil Science and Plant Nutrition, 2020, 20, 715-724.	1.7	12
77	Influence of plant beneficial Stenotrophomonas rhizophila strain CASB3 on the degradation of diuron-contaminated saline soil and improvement of Lactuca sativa growth. Environmental Science and Pollution Research, 2020, 27, 35195-35207.	2.7	12
78	Influence of Profiles and Concentrations of Phenolic Compounds in the Coloration and Antioxidant Properties of Gaultheria poeppigii Fruits from Southern Chile. Plant Foods for Human Nutrition, 2020, 75, 532-539.	1.4	11
79	Contribution of inoculation with arbuscular mycorrhizal fungi to the bioremediation of a copper polluted soil using Oenothera picensis. Journal of Soil Science and Plant Nutrition, 2016, , 0-0.	1.7	10
80	Endophytic selenobacteria and arbuscular mycorrhizal fungus for Selenium biofortification and Gaeumannomyces graminis biocontrol. Journal of Soil Science and Plant Nutrition, 2018, , 0-0.	1.7	10
81	Noticeable Quantities of Functional Compounds and Antioxidant Activities Remain after Cooking of Colored Fleshed Potatoes Native from Southern Chile. Molecules, 2021, 26, 314.	1.7	10
82	Shifts in biochemical and physiological responses by the inoculation of arbuscular mycorrhizal fungi in <scp>Triticum aestivum</scp> growing under drought conditions. Journal of the Science of Food and Agriculture, 2022, 102, 1927-1938.	1.7	9
83	Rhizophagus Clarus and Phosphorus in Crotalaria juncea: Growth, Glomalin Content and Acid Phosphatase Activity in a Copper-Contaminated Soil. Revista Brasileira De Ciencia Do Solo, 2018, 42, .	0.5	8
84	Accumulation of Sulphur in Atriplex nummularia Cultivated in Mine Tailings and Effect of Organic Amendments Addition. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	8
85	Main Molecular Pathways Associated with Copper Tolerance Response in Imperata cylindrica by de novo Transcriptome Assembly. Plants, 2021, 10, 357.	1.6	8
86	Stability of antioxidant compounds and activities of a natural dye from coloured-flesh potatoes in dairy foods. LWT - Food Science and Technology, 2021, 144, 111252.	2.5	8
87	The effect of arbuscular mycorrhizal fungi on the phenolic compounds profile, antioxidant activity and grain yields in wheat cultivars growing under hydric stress. Journal of the Science of Food and Agriculture, 2022, 102, 407-416.	1.7	8
88	Plant Growth-Promoting Microorganisms in Coffee Production: From Isolation to Field Application. Agronomy, 2021, 11, 1531.	1.3	8
89	Rhizosphere Management for Phytoremediation of Copper Mine Tailings. Journal of Soil Science and Plant Nutrition, 2021, 21, 3091-3109.	1.7	8
90	Metabolic and antioxidant effects of inoculation with arbuscular mycorrhizal fungi in crops of fleshâ€coloured <scp>Solanum tuberosum</scp> treated with fungicides. Journal of the Science of Food and Agriculture, 2022, 102, 2270-2280.	1.7	8

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91	Effect of Nitrogen Source on Some Rhizospheric Properties and Persistence of my Corrhizal Fungal Propagules in an Andisol. Chilean Journal of Agricultural Research, 2008, 68, .	0.4	7
92	Arbuscular Mycorrhizal Fungi Improve Tolerance of Agricultural Plants to Cope Abiotic Stress Conditions. , 2017, , 55-80.		7
93	Arbuscular Mycorrhizal symbiosis in four Al-tolerant wheat genotypes grown in an acidic Andisol. Journal of Soil Science and Plant Nutrition, 2016, , 0-0.	1.7	6
94	Showing their mettle: extraradical mycelia of arbuscular mycorrhizae form a metal filter to improve host Al tolerance and P nutrition. Journal of the Science of Food and Agriculture, 2020, 100, 803-810.	1.7	6
95	Shifts in soil traits and arbuscular mycorrhizal symbiosis represent the conservation status of Araucaria araucana forests and the effects after fire events. Forest Ecology and Management, 2020, 458, 117806.	1.4	6
96	Soil Biological Properties and Arbuscular Mycorrhizal Fungal Communities of Representative Crops Established in the Andean Region from Ecuadorian Highlands. Journal of Soil Science and Plant Nutrition, 2020, 20, 2156-2163.	1.7	6
97	Utilization of Inorganic Nanoparticles and Biochar as Additives of Agricultural Waste Composting: Effects of End-Products on Plant Growth, C and Nutrient Stock in Soils from a Mediterranean Region. Agronomy, 2021, 11, 767.	1.3	6
98	Photosynthetic metabolism during phosphate limitation in a legume from the Mediterranean-type Fynbos ecosystem. Journal of Plant Physiology, 2019, 243, 153051.	1.6	4
99	Root traits distinguish phosphorus acquisition of two wheat cultivars growing in phosphorus-deficient acid soil. Rhizosphere, 2022, 22, 100549.	1.4	4
100	Arbuscular mycorrhizal status of pioneer plants from the mouth of lake Budi, AraucanÃa Region, Chile. Journal of Soil Science and Plant Nutrition, 2015, , 0-0.	1.7	3
101	Arbuscular mycorrhizal assemblages along contrasting Andean forests of Southern Chile. Journal of Soil Science and Plant Nutrition, 2016, , 0-0.	1.7	3
102	How Does the Use of Non-Host Plants Affect Arbuscular Mycorrhizal Communities and Levels and Nature of Glomalin in Crop Rotation Systems Established in Acid Andisols?. Fungal Biology, 2019, , 147-158.	0.3	3
103	Arbuscular mycorrhizal fungal abundance in elevation belts of the hyperarid Atacama Desert. Fungal Ecology, 2021, 51, 101060.	0.7	3
104	Phenological Stages and Aluminum Presence Influences Arbuscular Mycorrhizal Fungi Communities in Roots of Plant Cereals. Journal of Soil Science and Plant Nutrition, 2021, 21, 1467-1473.	1.7	2
105	Visualization of Arbuscular Mycorrhizal Fungal Extraradical Hyphae and Spores Vitality and Activity. Methods in Molecular Biology, 2020, 2146, 61-71.	0.4	2
106	Nothofagus pumilio forest affected by recent tephra deposition in northern Patagonia. II- Shifts in diversity and structure of rhizosphere fungal communities. Journal of Soil Science and Plant Nutrition, 2018, , 0-0.	1.7	1