

Claude Plassard

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5193277/claude-plassard-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

69
papers

3,307
citations

29
h-index

57
g-index

71
ext. papers

3,859
ext. citations

5.4
avg, IF

5.25
L-index

#	Paper	IF	Citations
69	Organic phosphorus immobilization in microbial biomass controls how N ₂ -fixing trees affect phosphorus bioavailability in two tropical soils. <i>Environmental Advances</i> , 2022 , 8, 100247	3.5	1
68	Mycorrhizas: Role in N and P cycling and nutrition of forest trees 2022 , 405-422		
67	A dansyl-derivatized phytic acid analogue as a fluorescent substrate for phytases: experimental and computational approach. <i>Bioorganic Chemistry</i> , 2021 , 110, 104810	5.1	
66	Agricultural Practices Modulate the Beneficial Activity of Bacterial-Feeding Nematodes for Plant Growth and Nutrition: Evidence from an Original Intact Soil Core Technique. <i>Sustainability</i> , 2021 , 13, 7181	3.6	1
65	Richness of Rhizosphere Organisms Affects Plant P Nutrition According to P Source and Mobility. <i>Agriculture (Switzerland)</i> , 2021 , 11, 157	3	1
64	Quantification of the global impact of agricultural practices on soil nematodes: A meta-analysis. <i>Soil Biology and Biochemistry</i> , 2021 , 161, 108383	7.5	7
63	Agroecosystem diversification with legumes or non-legumes improves differently soil fertility according to soil type. <i>Science of the Total Environment</i> , 2021 , 795, 148934	10.2	5
62	Introducing N-fixing trees (<i>Acacia mangium</i>) in eucalypt plantations rapidly modifies the pools of organic P and low molecular weight organic acids in tropical soils. <i>Science of the Total Environment</i> , 2020 , 742, 140535	10.2	7
61	Micro-food web interactions involving bacteria, nematodes, and mycorrhiza enhance tree P nutrition in a high P-sorbing soil amended with phytate. <i>Soil Biology and Biochemistry</i> , 2020 , 143, 107728	7.5	7
60	Reappraisal of the central role of soil nutrient availability in nutrient management in light of recent advances in plant nutrition at crop and molecular levels. <i>European Journal of Agronomy</i> , 2020 , 116, 126069	5.9	29
59	Role of trees and herbaceous vegetation beneath trees in maintaining arbuscular mycorrhizal communities in temperate alley cropping systems. <i>Plant and Soil</i> , 2020 , 453, 153-171	4.2	12
58	Phosphorus Transport in Mycorrhiza: How Far Are We?. <i>Trends in Plant Science</i> , 2019 , 24, 794-801	13.1	24
57	How deep can ectomycorrhizas go? A case study on <i>Pisolithus</i> down to 4 meters in a Brazilian eucalypt plantation. <i>Mycorrhiza</i> , 2019 , 29, 637-648	3.9	10
56	Effects of a bacterivorous nematode on rice ³² P uptake and root architecture in a high P-sorbing ferrallitic soil. <i>Soil Biology and Biochemistry</i> , 2018 , 122, 39-49	7.5	11
55	Lack of phosphorus reserves and remobilization in grey poplar (<i>Populus trichocarpa</i>): an exception among deciduous tree species?. <i>Tree Physiology</i> , 2018 , 38, 1-5	4.2	15
54	Nitrogen and phosphate metabolism in ectomycorrhizas. <i>New Phytologist</i> , 2018 , 220, 1047-1058	9.8	43
53	and P-NMR Study of the Phosphate Transport and Polyphosphate Metabolism in in Response to Plant Roots Signals. <i>Bio-protocol</i> , 2018 , 8, e2973	0.9	1

52	Impact of Roots, Microorganisms and Microfauna on the Fate of Soil Phosphorus in the Rhizosphere 2018 , 377-407		12
51	HcPT1.2 participates in Pi acquisition in Hebeloma cylindrosporium external hyphae of ectomycorrhizas under high and low phosphate conditions. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1525997	2.5	9
50	The Hebeloma cylindrosporium HcPT2 Pi transporter plays a key role in ectomycorrhizal symbiosis. <i>New Phytologist</i> , 2018 , 220, 1185-1199	9.8	20
49	Attractancy of bacterivorous nematodes to root-adhering soils differs according to rice cultivars. <i>Rhizosphere</i> , 2017 , 3, 128-131	3.5	3
48	The host plant Pinus pinaster exerts specific effects on phosphate efflux and polyphosphate metabolism of the ectomycorrhizal fungus Hebeloma cylindrosporium: a radiotracer, cytological staining and P NMR spectroscopy study. <i>Plant, Cell and Environment</i> , 2017 , 40, 190-202	8.4	16
47	A Method for Radioactive Labelling of to Study Plant-fungus Interactions. <i>Bio-protocol</i> , 2017 , 7, e2576	0.9	4
46	Establishing a Symbiotic Interface between Cultured Ectomycorrhizal Fungi and Plants to Follow Fungal Phosphate Metabolism. <i>Bio-protocol</i> , 2017 , 7, e2577	0.9	5
45	Ecological importance of soil bacterivores for ecosystem functions. <i>Plant and Soil</i> , 2016 , 398, 1-24	4.2	151
44	Nitrogen dynamics within and between decomposing leaves, bark and branches in Eucalyptus planted forests. <i>Soil Biology and Biochemistry</i> , 2016 , 101, 55-64	7.5	8
43	Quantification of organic P and low-molecular-weight organic acids in ferralsol soil extracts by ion chromatography. <i>Geoderma</i> , 2015 , 257-258, 94-101	6.7	8
42	Impact of roots, microorganisms and microfauna on the fate of soil phosphorus in the rhizosphere 2015 , 375-407		13
41	Evidence of short-term belowground transfer of nitrogen from Acacia mangium to Eucalyptus grandis trees in a tropical planted forest. <i>Soil Biology and Biochemistry</i> , 2015 , 91, 99-108	7.5	48
40	Protected activity of a phytase immobilized in mesoporous silica with benefits to plant phosphorus nutrition. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 74, 55-65	2.3	15
39	Potassium nutrition of ectomycorrhizal Pinus pinaster: overexpression of the Hebeloma cylindrosporium HcTrk1 transporter affects the translocation of both K(+) and phosphorus in the host plant. <i>New Phytologist</i> , 2014 , 201, 951-960	9.8	43
38	Positive growth response of Pinus pinaster seedlings in soils previously subjected to fertilization and irrigation. <i>Forest Ecology and Management</i> , 2014 , 318, 62-70	3.9	9
37	Localization of the Bacillus subtilis beta-propeller phytase transcripts in nodulated roots of Phaseolus vulgaris supplied with phytate. <i>Planta</i> , 2014 , 239, 901-8	4.7	16
36	Promoter-dependent expression of the fungal transporter HcPT1.1 under Pi shortage and its spatial localization in ectomycorrhiza. <i>Fungal Genetics and Biology</i> , 2013 , 58-59, 53-61	3.9	20
35	Biotrophic transportome in mutualistic plant-fungal interactions. <i>Mycorrhiza</i> , 2013 , 23, 597-625	3.9	113

34	INTERACTIONS BETWEEN COMMON BEAN GENOTYPES AND RHIZOBIA STRAINS ISOLATED FROM MOROCCAN SOILS FOR GROWTH, PHOSPHATASE AND PHYTASE ACTIVITIES UNDER PHOSPHORUS DEFICIENCY CONDITIONS. <i>Journal of Plant Nutrition</i> , 2012 , 35, 1477-1490	2.3	17
33	Phosphorus acquisition from phytate depends on efficient bacterial grazing, irrespective of the mycorrhizal status of <i>Pinus pinaster</i> . <i>Plant and Soil</i> , 2012 , 358, 155-168	4.2	39
32	Ectomycorrhiza and Nitrogen Provision to the Host Tree 2011 , 69-94		17
31	Do pH changes in the leaf apoplast contribute to rapid inhibition of leaf elongation rate by water stress? Comparison of stress responses induced by polyethylene glycol and down-regulation of root hydraulic conductivity. <i>Plant, Cell and Environment</i> , 2011 , 34, 1258-66	8.4	14
30	Aquaporins: for more than water at the plant-fungus interface?. <i>New Phytologist</i> , 2011 , 190, 815-817	9.8	34
29	Grazing by nematodes on rhizosphere bacteria enhances nitrate and phosphorus availability to <i>Pinus pinaster</i> seedlings. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 2121-2126	7.5	53
28	Acquisition of phosphorus and other poorly mobile nutrients by roots. Where do plant nutrition models fail?. <i>Plant and Soil</i> , 2011 , 348, 29-61	4.2	162
27	Optimized assay and storage conditions for enzyme activity profiling of ectomycorrhizae. <i>Mycorrhiza</i> , 2011 , 21, 589-600	3.9	45
26	Diversity in phosphorus mobilisation and uptake in ectomycorrhizal fungi. <i>Annals of Forest Science</i> , 2011 , 68, 33-43	3.1	59
25	P for two, sharing a scarce resource: soil phosphorus acquisition in the rhizosphere of intercropped species. <i>Plant Physiology</i> , 2011 , 156, 1078-86	6.6	233
24	Efficiency of acid phosphatases secreted from the ectomycorrhizal fungus <i>Hebeloma cylindrosporum</i> to hydrolyse organic phosphorus in podzols. <i>FEMS Microbiology Ecology</i> , 2010 , 73, 323-334	3.3	38
23	Spatial distribution of phosphatase activity associated with ectomycorrhizal plants is related to soil type. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 324-330	7.5	38
22	Regulation of low-molecular weight organic acid production in fungi. <i>Fungal Biology Reviews</i> , 2009 , 23, 30-39	6.8	61
21	Strategies and methods for studying the rhizosphere—the plant science toolbox. <i>Plant and Soil</i> , 2009 , 321, 431-456	4.2	127
20	Two differentially regulated phosphate transporters from the symbiotic fungus <i>Hebeloma cylindrosporum</i> and phosphorus acquisition by ectomycorrhizal <i>Pinus pinaster</i> . <i>Plant Journal</i> , 2009 , 57, 1092-102	6.9	64
19	The Beneficial Effect of Mycorrhizae on N Utilization by the Host-Plant: Myth or Reality? 2008 , 209-240		5
18	Phosphatase and phytase activities in nodules of common bean genotypes at different levels of phosphorus supply. <i>Plant and Soil</i> , 2008 , 312, 129-138	4.2	62
17	Mycorrhizal association of maritime pine, <i>Pinus pinaster</i> , with <i>Rhizopogon roseolus</i> has contrasting effects on the uptake from soil and root-to-shoot transfer of ¹³⁷ Cs, ⁸⁵ Sr and ^{95m} Tc. <i>Journal of Environmental Radioactivity</i> , 2008 , 99, 853-63	2.4	12

16	Kinetics of NO ₃ (-) net fluxes in <i>Pinus pinaster</i> , <i>Rhizopogon roseolus</i> and their ectomycorrhizal association, as affected by the presence of NO ₃ (-) and NH ₄ ⁺ . <i>Plant, Cell and Environment</i> , 2007 , 30, 1309-1319	8.4	23
15	How does a symbiotic fungus modulate expression of its host-plant nitrite reductase?. <i>New Phytologist</i> , 2007 , 175, 155-165	9.8	26
14	Fluorescent in situ RT-PCR to visualise the expression of a phosphate transporter gene from an ectomycorrhizal fungus. <i>Mycorrhiza</i> , 2007 , 17, 487-494	3.9	26
13	Molecular and functional characterization of a Na(+)-K(+) transporter from the Trk family in the ectomycorrhizal fungus <i>Hebeloma cylindrosporum</i> . <i>Journal of Biological Chemistry</i> , 2007 , 282, 26057-66	5.4	41
12	Rhizosphere: A new frontier for soil biogeochemistry. <i>Journal of Geochemical Exploration</i> , 2006 , 88, 210-213	3.8	179
11	Quantification of ectomycorrhizal fungal effects on the bioavailability and mobilization of soil P in the rhizosphere of <i>Pinus pinaster</i> . <i>New Phytologist</i> , 2004 , 163, 177-185	9.8	57
10	Large-scale identification of genes in the fungus <i>Hebeloma cylindrosporum</i> paves the way to molecular analyses of ectomycorrhizal symbiosis. <i>New Phytologist</i> , 2004 , 164, 505-513	9.8	39
9	Dynamics of ectomycorrhizal mycelial growth and P transfer to the host plant in response to low and high soil P availability. <i>FEMS Microbiology Ecology</i> , 2004 , 48, 149-56	4.3	31
8	Origins of root-mediated pH changes in the rhizosphere and their responses to environmental constraints: A review. <i>Plant and Soil</i> , 2003 , 248, 43-59	4.2	884
7	The ectomycorrhizal symbiosis between <i>Lactarius deliciosus</i> and <i>Pinus sylvestris</i> in forest soil samples: symbiotic efficiency and development on roots of a rDNA internal transcribed spacer-selected isolate of <i>L. deliciosus</i> . <i>Mycorrhiza</i> , 2003 , 13, 17-25	3.9	15
6	Juvenile nitrogen uptake capacities and root architecture of two open-pollinated families of <i>Picea abies</i> . Effects of nitrogen source and ectomycorrhizal symbiosis. <i>Journal of Plant Physiology</i> , 2003 , 160, 1211-8	3.6	26
5	Release of oxalate and protons by ectomycorrhizal fungi in response to P-deficiency and calcium carbonate in nutrient solution. <i>Annals of Forest Science</i> , 2003 , 60, 815-821	3.1	63
4	Origins of root-mediated pH changes in the rhizosphere and their responses to environmental constraints: A review 2003 , 43-59		6
3	Quantification of oxalate ions and protons released by ectomycorrhizal fungi in rhizosphere soil. <i>Agronomy for Sustainable Development</i> , 2003 , 23, 461-469		61
2	Differential NO dependent patterns of NO uptake in <i>Pinus pinaster</i> , <i>Rhizopogon roseolus</i> and their ectomycorrhizal association. <i>New Phytologist</i> , 2002 , 154, 509-516	9.8	32
1	Localization and quantification of net fluxes of H ⁺ along maize roots by combined use of pH-indicator dye videodensitometry and H ⁺ -selective microelectrodes. <i>Plant and Soil</i> , 1999 , 211, 29-39	4.2	30