

Philippe Lemanceau

List of Publications by Year in descending order

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84
papers

10,898
citations

57631

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79
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90
docs citations

90
times ranked

10915
citing authors

#	ARTICLE	IF	CITATIONS
1	Rhizosphere Bacterial Networks, but Not Diversity, Are Impacted by Pea-Wheat Intercropping. <i>Frontiers in Microbiology</i> , 2021, 12, 674556.	1.5	23
2	Importance of the Rhizosphere Microbiota in Iron Biofortification of Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 744445.	1.7	20
3	Impact of Bacterial Siderophores on Iron Status and Ionome in Pea. <i>Frontiers in Plant Science</i> , 2020, 11, 730.	1.7	53
4	Unusual extracellular appendages deployed by the model strain <i>Pseudomonas fluorescens</i> C7R12. <i>PLoS ONE</i> , 2019, 14, e0221025.	1.1	9
5	Soil parameters, land use, and geographical distance drive soil bacterial communities along a European transect. <i>Scientific Reports</i> , 2019, 9, 605.	1.6	56
6	Soil bacterial networks are less stable under drought than fungal networks. <i>Nature Communications</i> , 2018, 9, 3033.	5.8	992
7	Soil networks become more connected and take up more carbon as nature restoration progresses. <i>Nature Communications</i> , 2017, 8, 14349.	5.8	555
8	Let the Core Microbiota Be Functional. <i>Trends in Plant Science</i> , 2017, 22, 583-595.	4.3	317
9	<i>Pseudomonas fluorescens</i> C7R12 type III secretion system impacts mycorrhization of <i>Medicago truncatula</i> and associated microbial communities. <i>Mycorrhiza</i> , 2017, 27, 23-33.	1.3	32
10	The Ecological Role of Type Three Secretion Systems in the Interaction of Bacteria with Fungi in Soil and Related Habitats Is Diverse and Context-Dependent. <i>Frontiers in Microbiology</i> , 2017, 8, 38.	1.5	36
11	Indicator species and co-occurrence in communities of arbuscular mycorrhizal fungi at the European scale. <i>Soil Biology and Biochemistry</i> , 2016, 103, 464-470.	4.2	43
12	Mapping and validating predictions of soil bacterial biodiversity using European and national scale datasets. <i>Applied Soil Ecology</i> , 2016, 97, 61-68.	2.1	62
13	The <i>Pseudomonas fluorescens</i> Siderophore Pyoverdine Weakens <i>Arabidopsis thaliana</i> Defense in Favor of Growth in Iron-Deficient Conditions. <i>Plant Physiology</i> , 2016, 171, 675-693.	2.3	131
14	Meta-barcoded evaluation of the ISO standard 11063 DNA extraction procedure to characterize soil bacterial and fungal community diversity and composition. <i>Microbial Biotechnology</i> , 2015, 8, 131-142.	2.0	50
15	Understanding and managing soil biodiversity: a major challenge in agroecology. <i>Agronomy for Sustainable Development</i> , 2015, 35, 67-81.	2.2	93
16	Type III Secretion System and Virulence Markers Highlight Similarities and Differences between Human- and Plant-Associated <i>Pseudomonads</i> Related to <i>Pseudomonas fluorescens</i> and <i>P. putida</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 2579-2590.	1.4	16
17	Soil conditions and land use intensification effects on soil microbial communities across a range of European field sites. <i>Soil Biology and Biochemistry</i> , 2015, 88, 403-413.	4.2	151
18	On the value of soil biodiversity and ecosystem services. <i>Ecosystem Services</i> , 2015, 15, 11-18.	2.3	72

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19	Shifts in microbial diversity through land use intensity as drivers of carbon mineralization in soil. <i>Soil Biology and Biochemistry</i> , 2015, 90, 204-213.	4.2	159
20	Soil biodiversity and DNA barcodes: opportunities and challenges. <i>Soil Biology and Biochemistry</i> , 2015, 80, 244-250.	4.2	137
21	Similar Processes but Different Environmental Filters for Soil Bacterial and Fungal Community Composition Turnover on a Broad Spatial Scale. <i>PLoS ONE</i> , 2014, 9, e111667.	1.1	35
22	Stability of soil microbial structure and activity depends on microbial diversity. <i>Environmental Microbiology Reports</i> , 2014, 6, 173-183.	1.0	135
23	Stimulation of Different Functional Groups of Bacteria by Various Plant Residues as a Driver of Soil Priming Effect. <i>Ecosystems</i> , 2013, 16, 810-822.	1.6	265
24	Going back to the roots: the microbial ecology of the rhizosphere. <i>Nature Reviews Microbiology</i> , 2013, 11, 789-799.	13.6	2,669
25	Ferric-Pyoverdine Recognition by Fpv Outer Membrane Proteins of <i>Pseudomonas protegens</i> Pf-5. <i>Journal of Bacteriology</i> , 2013, 195, 765-776.	1.0	39
26	Identification of Traits Shared by Rhizosphere-Competent Strains of Fluorescent <i>Pseudomonads</i> . <i>Microbial Ecology</i> , 2012, 64, 725-737.	1.4	49
27	Evaluation of the ISO Standard 11063 DNA Extraction Procedure for Assessing Soil Microbial Abundance and Community Structure. <i>PLoS ONE</i> , 2012, 7, e44279.	1.1	113
28	Molecular biomass and MetaTaxogenomic assessment of soil microbial communities as influenced by soil DNA extraction procedure. <i>Microbial Biotechnology</i> , 2012, 5, 135-141.	2.0	123
29	Interaction between <i>Medicago truncatula</i> and <i>Pseudomonas fluorescens</i> : Evaluation of Costs and Benefits across an Elevated Atmospheric CO ₂ . <i>PLoS ONE</i> , 2012, 7, e45740.	1.1	5
30	Fluorescent pseudomonads harboring type III secretion genes are enriched in the mycorrhizosphere of <i>Medicago truncatula</i> . <i>FEMS Microbiology Ecology</i> , 2011, 75, 457-467.	1.3	37
31	TonB-dependent outer-membrane proteins and siderophore utilization in <i>Pseudomonas fluorescens</i> Pf-5. <i>BioMetals</i> , 2011, 24, 193-213.	1.8	45
32	Comparison of iron acquisition from Fe ³⁺ -pyoverdine by strategy I and strategy II plants. <i>Botany</i> , 2011, 89, 731-735.	0.5	45
33	Chapitre 28. Microflore des sols : intérêts et dangers pour les plantes, les animaux et l'homme. , 2011, , 661-685.		0
34	Soil microbial diversity: an ISO standard for soil DNA extraction. <i>Journal of Soils and Sediments</i> , 2010, 10, 1344-1345.	1.5	16
35	Biogeography of soil microbial communities: a review and a description of the ongoing french national initiative. <i>Agronomy for Sustainable Development</i> , 2010, 30, 359-365.	2.2	65
36	Diversity and Evolution of the Phenazine Biosynthesis Pathway. <i>Applied and Environmental Microbiology</i> , 2010, 76, 866-879.	1.4	241

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37	Bacterial effects on arbuscular mycorrhizal fungi and mycorrhiza development as influenced by the bacteria, fungi, and host plant. <i>Mycorrhiza</i> , 2009, 19, 81-90.	1.3	102
38	Iron dynamics in the rhizosphere as a case study for analyzing interactions between soils, plants and microbes. <i>Plant and Soil</i> , 2009, 321, 513-535.	1.8	164
39	Rhizosphere: so many achievements and even more challenges. <i>Plant and Soil</i> , 2009, 321, 1-3.	1.8	44
40	Phenazine antibiotics produced by fluorescent pseudomonads contribute to natural soil suppressiveness to <i>Fusarium</i> wilt. <i>ISME Journal</i> , 2009, 3, 977-991.	4.4	202
41	Methods for Studying Root Colonization by Introduced Beneficial Bacteria. , 2009, , 601-615.		14
42	Platform GenoSol: a new tool for conserving and exploring soil microbial diversity. <i>Environmental Microbiology Reports</i> , 2009, 1, 97-99.	1.0	17
43	Biogeographical patterns of soil bacterial communities. <i>Environmental Microbiology Reports</i> , 2009, 1, 251-255.	1.0	70
44	Identification of Traits Implicated in the Rhizosphere Competence of Fluorescent Pseudomonads: Description of a Strategy Based on Population and Model Strain Studies. , 2009, , 285-296.		15
45	Colonization of adventitious roots of <i>Medicago truncatula</i> by <i>Pseudomonas fluorescens</i> C7R12 as affected by arbuscular mycorrhiza. <i>FEMS Microbiology Letters</i> , 2008, 289, 173-180.	0.7	23
46	Microdiversity of Burkholderiales associated with mycorrhizal and nonmycorrhizal roots of <i>Medicago truncatula</i> . <i>FEMS Microbiology Ecology</i> , 2008, 65, 180-192.	1.3	32
47	Multitrophic interactions in the rhizosphere – Rhizosphere microbiology: at the interface of many disciplines and expertises. <i>FEMS Microbiology Ecology</i> , 2008, 65, 179-179.	1.3	18
48	Colonization of Plant Roots by Pseudomonads and AM Fungi: A Dynamic Phenomenon, Affecting Plant Growth and Health. , 2008, , 601-626.		3
49	Iron Acquisition from Fe-Pyoverdine by <i>Arabidopsis thaliana</i> . <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 441-447.	1.4	225
50	Dynamics and identification of soil microbial populations actively assimilating carbon from ¹³ C-labelled wheat residue as estimated by DNA- and RNA-SIP techniques. <i>Environmental Microbiology</i> , 2007, 9, 752-764.	1.8	213
51	Diversity of root-associated fluorescent pseudomonads as affected by ferritin overexpression in tobacco. <i>Environmental Microbiology</i> , 2007, 9, 1724-1737.	1.8	34
52	Metaproteomics: A New Approach for Studying Functional Microbial Ecology. <i>Microbial Ecology</i> , 2007, 53, 486-493.	1.4	203
53	Contribution of studies on suppressive soils to the identification of bacterial biocontrol agents and to the knowledge of their modes of action. , 2007, , 231-267.		14
54	Implication of Pyoverdines in the Interactions of Fluorescent Pseudomonads with Soil Microflora and Plant in the Rhizosphere. <i>Soil Biology</i> , 2007, , 165-192.	0.6	5

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55	Conservation of type III secretion system genes in <i>Bradyrhizobium</i> isolated from soybean. <i>FEMS Microbiology Letters</i> , 2006, 259, 317-325.	0.7	14
56	Effect of ferritin overexpression in tobacco on the structure of bacterial and pseudomonad communities associated with the roots. <i>FEMS Microbiology Ecology</i> , 2006, 58, 492-502.	1.3	44
57	The Soil Type Affects Both the Differential Accumulation of Iron between Wild-type and Ferritin Over-expressor Tobacco Plants and the Sensitivity of their Rhizosphere Bacterioflora to Iron Stress. <i>Plant and Soil</i> , 2006, 283, 73-81.	1.8	19
58	Suppression of <i>Rhizoctonia</i> root-rot of tomato by <i>Glomus mossae</i> BEG12 and <i>Pseudomonas fluorescens</i> A6RI is associated with their effect on the pathogen growth and on the root morphogenesis. <i>European Journal of Plant Pathology</i> , 2005, 111, 279-288.	0.8	101
59	Colonization pattern of primary tomato roots by <i>Pseudomonas fluorescens</i> A6RI characterized by dilution plating, flow cytometry, fluorescence, confocal and scanning electron microscopy. <i>FEMS Microbiology Ecology</i> , 2004, 48, 79-87.	1.3	105
60	Distribution and diversity of type III secretion system-like genes in saprophytic and phytopathogenic fluorescent pseudomonads. <i>FEMS Microbiology Ecology</i> , 2004, 49, 455-467.	1.3	40
61	Defense Responses of <i>Fusarium oxysporum</i> to 2,4-Diacetylphloroglucinol, a Broad-Spectrum Antibiotic Produced by <i>Pseudomonas fluorescens</i> . <i>Molecular Plant-Microbe Interactions</i> , 2004, 17, 1201-1211.	1.4	91
62	Comparative Genetic Diversity of the <i>narG</i> , <i>nosZ</i> , and 16S rRNA Genes in Fluorescent <i>Pseudomonads</i> . <i>Applied and Environmental Microbiology</i> , 2003, 69, 1004-1012.	1.4	39
63	Effect of 2,4-Diacetylphloroglucinol on <i>Pythium</i> : Cellular Responses and Variation in Sensitivity Among Propagules and Species. <i>Phytopathology</i> , 2003, 93, 966-975.	1.1	174
64	Identification of traits implicated in the rhizosphere competence of fluorescent pseudomonads: description of a strategy based on population and model strain studies. <i>Agronomy for Sustainable Development</i> , 2003, 23, 397-405.	0.8	22
65	<i>Pseudomonas lini</i> sp. nov., a novel species from bulk and rhizospheric soils. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2002, 52, 513-523.	0.8	54
66	Siderophore Typing, a Powerful Tool for the Identification of Fluorescent and Nonfluorescent <i>Pseudomonads</i> . <i>Applied and Environmental Microbiology</i> , 2002, 68, 2745-2753.	1.4	189
67	Effect of fusaric acid and phytoanticipins on growth of rhizobacteria and <i>Fusarium oxysporum</i> . <i>Canadian Journal of Microbiology</i> , 2002, 48, 971-985.	0.8	46
68	Involvement of Nitrate Reductase and Pyoverdine in Competitiveness of <i>Pseudomonas fluorescens</i> Strain C7R12 in Soil. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2627-2635.	1.4	54
69	Acyl-Homoserine Lactone Production Is More Common among Plant-Associated <i>Pseudomonas</i> spp. than among Soilborne <i>Pseudomonas</i> spp. <i>Applied and Environmental Microbiology</i> , 2001, 67, 1198-1209.	1.4	213
70	Fitness in soil and rhizosphere of <i>Pseudomonas fluorescens</i> C7R12 compared with a C7R12 mutant affected in pyoverdine synthesis and uptake. <i>FEMS Microbiology Ecology</i> , 2000, 34, 35-44.	1.3	74
71	The taxonomy of <i>Pseudomonas fluorescens</i> and <i>Pseudomonas putida</i> : current status and need for revision. <i>Agronomy for Sustainable Development</i> , 2000, 20, 51-63.	0.8	102
72	Joint Action of Microbials for Disease Control. , 1999, , 117-136.		5

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73	The establishment of an introduced community of fluorescent pseudomonads in the soil and in the rhizosphere is affected by the soil type. <i>FEMS Microbiology Ecology</i> , 1999, 30, 163-170.	1.3	58
74	Les microbes et le cultivateur. <i>Biofutur</i> , 1999, 1999, 17-19.	0.0	3
75	Microbial Antagonism at the Root Level Is Involved in the Suppression of Fusarium Wilt by the Combination of Nonpathogenic <i>Fusarium oxysporum</i> Fo47 and <i>Pseudomonas putida</i> WCS358. <i>Phytopathology</i> , 1999, 89, 1073-1079.	1.1	133
76	Title is missing!. <i>European Journal of Plant Pathology</i> , 1998, 104, 903-910.	0.8	162
77	Involvement of the outer membrane lipopolysaccharides in the endophytic colonization of tomato roots by biocontrol <i>Pseudomonas fluorescens</i> strain WCS417r. <i>New Phytologist</i> , 1997, 135, 325-334.	3.5	201
78	Recent advances in the biological control of fusarium wilts. <i>Pest Management Science</i> , 1993, 37, 365-373.	0.7	176
79	Antagonistic Effect of Nonpathogenic <i>Fusarium oxysporum</i> Fo47 and Pseudobactin 358 upon Pathogenic <i>Fusarium oxysporum</i> f. sp. <i>dianthi</i> . <i>Applied and Environmental Microbiology</i> , 1993, 59, 74-82.	1.4	125
80	Biological control of fusarium diseases by fluorescent <i>Pseudomonas</i> and non-pathogenic <i>Fusarium</i> . <i>Crop Protection</i> , 1991, 10, 279-286.	1.0	211
81	Population dynamics of non-pathogenic <i>Fusarium</i> and fluorescent <i>Pseudomonas</i> strains in rockwool, a substratum for soilless culture. <i>FEMS Microbiology Ecology</i> , 1991, 9, 177-184.	1.3	10
82	Population dynamics of non-pathogenic <i>Fusarium</i> and fluorescent <i>Pseudomonas</i> strains in rockwool, a substratum for soilless culture. <i>FEMS Microbiology Letters</i> , 1991, 86, 177-184.	0.7	39
83	Recherches sur la r�sistance des sols aux maladies. XIV. Modification du niveau de r�ceptivit� d'un sol r�sistant et d'un sol sensible aux fusarioses vasculaires en r�ponse � des apports de fer ou de glucose. <i>Agronomy for Sustainable Development</i> , 1988, 8, 155-162.	0.8	40
84	Recherches sur la r�sistance des sols aux maladies. XV. Comparaison des populations de <i>Pseudomonas</i> fluorescents dans un sol r�sistant et un sol sensible aux fusarioses vasculaires. <i>Agronomy for Sustainable Development</i> , 1988, 8, 243-249.	0.8	32