

# Philippe Lemanceau

## List of Publications by Year in descending order

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84  
papers

10,898  
citations

57758

44  
h-index

64796

79  
g-index

90  
all docs

90  
docs citations

90  
times ranked

10915  
citing authors

#	ARTICLE	IF	CITATIONS
1	Going back to the roots: the microbial ecology of the rhizosphere. <i>Nature Reviews Microbiology</i> , 2013, 11, 789-799.	28.6	2,669
2	Soil bacterial networks are less stable under drought than fungal networks. <i>Nature Communications</i> , 2018, 9, 3033.	12.8	992
3	Soil networks become more connected and take up more carbon as nature restoration progresses. <i>Nature Communications</i> , 2017, 8, 14349.	12.8	555
4	Let the Core Microbiota Be Functional. <i>Trends in Plant Science</i> , 2017, 22, 583-595.	8.8	317
5	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.	3.4	265
6	Diversity and Evolution of the Phenazine Biosynthesis Pathway. <i>Applied and Environmental Microbiology</i> , 2010, 76, 866-879.	3.1	241
7	Iron Acquisition from Fe-Pyoverdine by <i>Arabidopsis thaliana</i> . <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 441-447.	2.6	225
8	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.	3.1	213
9	Dynamics and identification of soil microbial populations actively assimilating carbon from $^{13}\text{C}$ -labelled wheat residue as estimated by DNA- and RNA-SIP techniques. <i>Environmental Microbiology</i> , 2007, 9, 752-764.	3.8	213
10	Biological control of fusarium diseases by fluorescent <i>Pseudomonas</i> and non-pathogenic <i>Fusarium</i> . <i>Crop Protection</i> , 1991, 10, 279-286.	2.1	211
11	Metaproteomics: A New Approach for Studying Functional Microbial Ecology. <i>Microbial Ecology</i> , 2007, 53, 486-493.	2.8	203
12	Phenazine antibiotics produced by fluorescent pseudomonads contribute to natural soil suppressiveness to <i>Fusarium</i> wilt. <i>ISME Journal</i> , 2009, 3, 977-991.	9.8	202
13	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.	7.3	201
14	Siderophore Typing, a Powerful Tool for the Identification of Fluorescent and Nonfluorescent Pseudomonads. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2745-2753.	3.1	189
15	Recent advances in the biological control of fusarium wilts. <i>Pest Management Science</i> , 1993, 37, 365-373.	0.4	176
16	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.	2.2	174
17	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.	3.7	164
18	Title is missing!. <i>European Journal of Plant Pathology</i> , 1998, 104, 903-910.	1.7	162

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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.	8.8	159
20	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.	8.8	151
21	Soil biodiversity and DNA barcodes: opportunities and challenges. <i>Soil Biology and Biochemistry</i> , 2015, 80, 244-250.	8.8	137
22	Stability of soil microbial structure and activity depends on microbial diversity. <i>Environmental Microbiology Reports</i> , 2014, 6, 173-183.	2.4	135
23	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.	2.2	133
24	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.	4.8	131
25	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.	3.1	125
26	Molecular biomass and MetaTaxogenomic assessment of soil microbial communities as influenced by soil DNA extraction procedure. <i>Microbial Biotechnology</i> , 2012, 5, 135-141.	4.2	123
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.	2.5	113
28	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.	2.7	105
29	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.	2.8	102
30	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
31	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.	1.7	101
32	Understanding and managing soil biodiversity: a major challenge in agroecology. <i>Agronomy for Sustainable Development</i> , 2015, 35, 67-81.	5.3	93
33	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.	2.6	91
34	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.	2.7	74
35	On the value of soil biodiversity and ecosystem services. <i>Ecosystem Services</i> , 2015, 15, 11-18.	5.4	72
36	Biogeographical patterns of soil bacterial communities. <i>Environmental Microbiology Reports</i> , 2009, 1, 251-255.	2.4	70

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37	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.	5.3	65
38	Mapping and validating predictions of soil bacterial biodiversity using European and national scale datasets. <i>Applied Soil Ecology</i> , 2016, 97, 61-68.	4.3	62
39	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.	2.7	58
40	Soil parameters, land use, and geographical distance drive soil bacterial communities along a European transect. <i>Scientific Reports</i> , 2019, 9, 605.	3.3	56
41	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.	3.1	54
42	<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.	1.7	54
43	Impact of Bacterial Siderophores on Iron Status and Ionome in Pea. <i>Frontiers in Plant Science</i> , 2020, 11, 730.	3.6	53
44	Meta-barcoded evaluation of the <sc>ISO</sc> standard 11063 <sc>DNA</sc> extraction procedure to characterize soil bacterial and fungal community diversity and composition. <i>Microbial Biotechnology</i> , 2015, 8, 131-142.	4.2	50
45	Identification of Traits Shared by Rhizosphere-Competent Strains of Fluorescent <i>Pseudomonads</i> . <i>Microbial Ecology</i> , 2012, 64, 725-737.	2.8	49
46	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.	1.7	46
47	TonB-dependent outer-membrane proteins and siderophore utilization in <i>Pseudomonas fluorescens</i> Pf-5. <i>BioMetals</i> , 2011, 24, 193-213.	4.1	45
48	Comparison of iron acquisition from Fe <sup>2+</sup> pyoverdine by strategy I and strategy II plants. <i>Botany</i> , 2011, 89, 731-735.	1.0	45
49	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.	2.7	44
50	Rhizosphere: so many achievements and even more challenges. <i>Plant and Soil</i> , 2009, 321, 1-3.	3.7	44
51	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.	8.8	43
52	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.	2.7	40
53	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
54	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.	1.8	39

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55	Comparative Genetic Diversity of the narG , nosZ , and 16S rRNA Genes in Fluorescent Pseudomonads. Applied and Environmental Microbiology, 2003, 69, 1004-1012.	3.1	39
56	Ferric-Pyoverdine Recognition by Fpv Outer Membrane Proteins of Pseudomonas protegens Pf-5. Journal of Bacteriology, 2013, 195, 765-776.	2.2	39
57	Fluorescent pseudomonads harboring type III secretion genes are enriched in the mycorrhizosphere of Medicago truncatula. FEMS Microbiology Ecology, 2011, 75, 457-467.	2.7	37
58	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. Frontiers in Microbiology, 2017, 8, 38.	3.5	36
59	Similar Processes but Different Environmental Filters for Soil Bacterial and Fungal Community Composition Turnover on a Broad Spatial Scale. PLoS ONE, 2014, 9, e111667.	2.5	35
60	Diversity of root-associated fluorescent pseudomonads as affected by ferritin overexpression in tobacco. Environmental Microbiology, 2007, 9, 1724-1737.	3.8	34
61	Microdiversity of Burkholderiales associated with mycorrhizal and nonmycorrhizal roots of Medicago truncatula. FEMS Microbiology Ecology, 2008, 65, 180-192.	2.7	32
62	Pseudomonas fluorescens C7R12 type III secretion system impacts mycorrhization of Medicago truncatula and associated microbial communities. Mycorrhiza, 2017, 27, 23-33.	2.8	32
63	Recherches sur la r�sistance des sols aux maladies. XV. Comparaison des populations de Pseudomonas fluorescens dans un sol r�sistant et un sol sensible aux fusarioses vasculaires. Agronomy for Sustainable Development, 1988, 8, 243-249.	0.8	32
64	Colonization of adventitious roots of Medicago truncatula by Pseudomonas fluorescens C7R12 as affected by arbuscular mycorrhiza. FEMS Microbiology Letters, 2008, 289, 173-180.	1.8	23
65	Rhizosphere Bacterial Networks, but Not Diversity, Are Impacted by Pea-Wheat Intercropping. Frontiers in Microbiology, 2021, 12, 674556.	3.5	23
66	Identification of traits implicated in the rhizosphere competence of fluorescent pseudomonads: description of a strategy based on population and model strain studies. Agronomy for Sustainable Development, 2003, 23, 397-405.	0.8	22
67	Importance of the Rhizosphere Microbiota in Iron Biofortification of Plants. Frontiers in Plant Science, 2021, 12, 744445.	3.6	20
68	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. Plant and Soil, 2006, 283, 73-81.	3.7	19
69	Multitrophic interactions in the rhizosphere �Rhizosphere microbiology: at the interface of many disciplines and expertises. FEMS Microbiology Ecology, 2008, 65, 179-179.	2.7	18
70	Platform GenoSol: a new tool for conserving and exploring soil microbial diversity. Environmental Microbiology Reports, 2009, 1, 97-99.	2.4	17
71	Soil microbial diversity: an ISO standard for soil DNA extraction. Journal of Soils and Sediments, 2010, 10, 1344-1345.	3.0	16
72	Type III Secretion System and Virulence Markers Highlight Similarities and Differences between Human- and Plant-Associated Pseudomonads Related to Pseudomonas fluorescens and P. putida. Applied and Environmental Microbiology, 2015, 81, 2579-2590.	3.1	16

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73	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
74	Conservation of type III secretion system genes in Bradyrhizobium isolated from soybean. FEMS Microbiology Letters, 2006, 259, 317-325.	1.8	14
75	Methods for Studying Root Colonization by Introduced Beneficial Bacteria. , 2009, , 601-615.		14
76	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
77	Population dynamics of non-pathogenic Fusarium and fluorescent Pseudomonas strains in rockwool, a substratum for soilless culture. FEMS Microbiology Ecology, 1991, 9, 177-184.	2.7	10
78	Unusual extracellular appendages deployed by the model strain Pseudomonas fluorescens C7R12. PLoS ONE, 2019, 14, e0221025.	2.5	9
79	Joint Action of Microbials for Disease Control. , 1999, , 117-136.		5
80	Implication of Pyoverdines in the Interactions of Fluorescent Pseudomonads with Soil Microflora and Plant in the Rhizosphere. Soil Biology, 2007, , 165-192.	0.8	5
81	Interaction between Medicago truncatula and Pseudomonas fluorescens: Evaluation of Costs and Benefits across an Elevated Atmospheric CO <sub>2</sub> . PLoS ONE, 2012, 7, e45740.	2.5	5
82	Les microbes et le cultivateur. Biofutur, 1999, 1999, 17-19.	0.0	3
83	Colonization of Plant Roots by Pseudomonads and AM Fungi: A Dynamic Phenomenon, Affecting Plant Growth and Health. , 2008, , 601-626.		3
84	Chapitre 28. Microflore des sols : intérêts et dangers pour les plantes, les animaux et l'homme. , 2011, , 661-685.		0