Philippe Lemanceau

List of Publications by Year
in descending order

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	Rhizosphere Bacterial Networks, but Not Diversity, Are Impacted by Pea-Wheat Intercropping. Frontiers in Microbiology, 2021, 12, 674556.	3.5	23
2	Importance of the Rhizosphere Microbiota in Iron Biofortification of Plants. Frontiers in Plant Science, 2021, 12, 744445.	3.6	20
3	Impact of Bacterial Siderophores on Iron Status and Ionome in Pea. Frontiers in Plant Science, 2020, 11, 730.	3.6	53
4	Unusual extracellular appendages deployed by the model strain Pseudomonas fluorescens C7R12. PLoS ONE, 2019, 14, e0221025.	2.5	9
5	Soil parameters, land use, and geographical distance drive soil bacterial communities along a European transect. Scientific Reports, 2019, 9, 605.	3.3	56
6	Soil bacterial networks are less stable under drought than fungal networks. Nature Communications, 2018, 9, 3033.	12.8	992
7	Soil networks become more connected and take up more carbon as nature restoration progresses. Nature Communications, 2017, 8, 14349.	12.8	555
8	Let the Core Microbiota Be Functional. Trends in Plant Science, 2017, 22, 583-595.	8.8	317
9	Pseudomonas fluorescens C7R12 type III secretion system impacts mycorrhization of Medicago truncatula and associated microbial communities. Mycorrhiza, 2017, 27, 23-33.	2.8	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. Frontiers in Microbiology, 2017, 8, 38.	3.5	36
11	Indicator species and co-occurrence in communities of arbuscular mycorrhizal fungi at the European scale. Soil Biology and Biochemistry, 2016, 103, 464-470.	8.8	43
12	Mapping and validating predictions of soil bacterial biodiversity using European and national scale datasets. Applied Soil Ecology, 2016, 97, 61-68.	4.3	62
13	The <i>Pseudomonas fluorescens</i> Siderophore Pyoverdine Weakens <i>Arabidopsis thaliana</i> Defense in Favor of Growth in Iron-Deficient Conditions. Plant Physiology, 2016, 171, 675-693.	4.8	131
14	Metaâ€barcoded evaluation of the <scp>ISO</scp> standard 11063 <scp>DNA</scp> extraction procedure to characterize soil bacterial and fungal community diversity and composition. Microbial Biotechnology, 2015, 8, 131-142.	4.2	50
15	Understanding and managing soil biodiversity: a major challenge in agroecology. Agronomy for Sustainable Development, 2015, 35, 67-81.	5.3	93
16	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
17	Soil conditions and land use intensification effects on soil microbial communities across a range of European field sites. Soil Biology and Biochemistry, 2015, 88, 403-413.	8.8	151
18	On the value of soil biodiversity and ecosystem services. Ecosystem Services, 2015, 15, 11-18.	5.4	72

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19	Shifts in microbial diversity through land use intensity as drivers of carbon mineralization in soil. Soil Biology and Biochemistry, 2015, 90, 204-213.	8.8	159
20	Soil biodiversity and DNA barcodes: opportunities and challenges. Soil Biology and Biochemistry, 2015, 80, 244-250.	8.8	137
21	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
22	Stability of soil microbial structure and activity depends on microbial diversity. Environmental Microbiology Reports, 2014, 6, 173-183.	2.4	135
23	Stimulation of Different Functional Groups of Bacteria by Various Plant Residues as a Driver of Soil Priming Effect. Ecosystems, 2013, 16, 810-822.	3.4	265
24	Going back to the roots: the microbial ecology of the rhizosphere. Nature Reviews Microbiology, 2013, 11, 789-799.	28.6	2,669
25	Ferric-Pyoverdine Recognition by Fpv Outer Membrane Proteins of Pseudomonas protegens Pf-5. Journal of Bacteriology, 2013, 195, 765-776.	2.2	39
26	Identification of Traits Shared by Rhizosphere-Competent Strains of Fluorescent Pseudomonads. Microbial Ecology, 2012, 64, 725-737.	2.8	49
27	Evaluation of the ISO Standard 11063 DNA Extraction Procedure for Assessing Soil Microbial Abundance and Community Structure. PLoS ONE, 2012, 7, e44279.	2.5	113
28	Molecular biomass and MetaTaxogenomic assessment of soil microbial communities as influenced by soil DNA extraction procedure. Microbial Biotechnology, 2012, 5, 135-141.	4.2	123
29	Interaction between Medicago truncatula and Pseudomonas fluorescens: Evaluation of Costs and Benefits across an Elevated Atmospheric CO2. PLoS ONE, 2012, 7, e45740.	2.5	5
30	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
31	TonB-dependent outer-membrane proteins and siderophore utilization in Pseudomonas fluorescens Pf-5. BioMetals, 2011, 24, 193-213.	4.1	45
32	Comparison of iron acquisition from Feâ€“pyoverdine by strategy I and strategy II plants. Botany, 2011, 89, 731-735.	1.0	45
33	Chapitre 28. Microflore des sols : intÃ©rÃªts et dangers pour les plantes, les animaux et lâ€™homme. , 2011, , 661-685.		0
34	Soil microbial diversity: an ISO standard for soil DNA extraction. Journal of Soils and Sediments, 2010, 10, 1344-1345.	3.0	16
35	Biogeography of soil microbial communities: a review and a description of the ongoing french national initiative. Agronomy for Sustainable Development, 2010, 30, 359-365.	5.3	65
36	Diversity and Evolution of the Phenazine Biosynthesis Pathway. Applied and Environmental Microbiology, 2010, 76, 866-879.	3.1	241

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37	Bacterial effects on arbuscular mycorrhizal fungi and mycorrhiza development as influenced by the bacteria, fungi, and host plant. Mycorrhiza, 2009, 19, 81-90.	2.8	102
38	Iron dynamics in the rhizosphere as a case study for analyzing interactions between soils, plants and microbes. Plant and Soil, 2009, 321, 513-535.	3.7	164
39	Rhizosphere: so many achievements and even more challenges. Plant and Soil, 2009, 321, 1-3.	3.7	44
40	Phenazine antibiotics produced by fluorescent pseudomonads contribute to natural soil suppressiveness to Fusarium wilt. ISME Journal, 2009, 3, 977-991.	9.8	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. Environmental Microbiology Reports, 2009, 1, 97-99.	2.4	17
43	Biogeographical patterns of soil bacterial communities. Environmental Microbiology Reports, 2009, 1, 251-255.	2.4	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 ofMedicago truncatulabyPseudomonas fluorescensC7R12 as affected by arbuscular mycorrhiza. FEMS Microbiology Letters, 2008, 289, 173-180.	1.8	23
46	Microdiversity of Burkholderiales associated with mycorrhizal and nonmycorrhizal roots of Medicago truncatula. FEMS Microbiology Ecology, 2008, 65, 180-192.	2.7	32
47	Multitrophic interactions in the rhizosphere Ã¢Â€Â¨Rhizosphere microbiology: at the interface of many disciplines and expertises. FEMS Microbiology Ecology, 2008, 65, 179-179.	2.7	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 Arabidopsis thaliana. Molecular Plant-Microbe Interactions, 2007, 20, 441-447.	2.6	225
50	Dynamics and identification of soil microbial populations actively assimilating carbon from13C-labelled wheat residue as estimated by DNA- and RNA-SIP techniques. Environmental Microbiology, 2007, 9, 752-764.	3.8	213
51	Diversity of root-associated fluorescent pseudomonads as affected by ferritin overexpression in tobacco. Environmental Microbiology, 2007, 9, 1724-1737.	3.8	34
52	Metaproteomics: A New Approach for Studying Functional Microbial Ecology. Microbial Ecology, 2007, 53, 486-493.	2.8	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. Soil Biology, 2007, , 165-192.	0.8	5

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55	Conservation of type III secretion system genes inBradyrhizobiumisolated from soybean. FEMS Microbiology Letters, 2006, 259, 317-325.	1.8	14
56	Effect of ferritin overexpression in tobacco on the structure of bacterial and pseudomonad communities associated with the roots. FEMS Microbiology Ecology, 2006, 58, 492-502.	2.7	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. Plant and Soil, 2006, 283, 73-81.	3.7	19
58	Suppression of Rhizoctonia root-rot of tomato by Glomus mossae BEG12 and Pseudomonas fluorescens A6RI is associated with their effect on the pathogen growth and on the root morphogenesis. European Journal of Plant Pathology, 2005, 111, 279-288.	1.7	101
59	Colonization pattern of primary tomato roots by Pseudomonas fluorescens A6RI characterized by dilution plating, flow cytometry, fluorescence, confocal and scanning electron microscopy. FEMS Microbiology Ecology, 2004, 48, 79-87.	2.7	105
60	Distribution and diversity of type III secretion system-like genes in saprophytic and phytopathogenic fluorescent pseudomonads. FEMS Microbiology Ecology, 2004, 49, 455-467.	2.7	40
61	Defense Responses of Fusarium oxysporum to 2,4-Diacetylphloroglucinol, a Broad-Spectrum Antibiotic Produced by Pseudomonas fluorescens. Molecular Plant-Microbe Interactions, 2004, 17, 1201-1211.	2.6	91
62	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
63	Effect of 2,4-Diacetylphloroglucinol on Pythium: Cellular Responses and Variation in Sensitivity Among Propagules and Species. Phytopathology, 2003, 93, 966-975.	2.2	174
64	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
65	Pseudomonas lini sp. nov., a novel species from bulk and rhizospheric soils.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 513-523.	1.7	54
66	Siderophore Typing, a Powerful Tool for the Identification of Fluorescent and Nonfluorescent Pseudomonads. Applied and Environmental Microbiology, 2002, 68, 2745-2753.	3.1	189
67	Effect of fusaric acid and phytoanticipins on growth of rhizobacteria andFusarium oxysporum. Canadian Journal of Microbiology, 2002, 48, 971-985.	1.7	46
68	Involvement of Nitrate Reductase and Pyoverdine in Competitiveness of Pseudomonas fluorescens Strain C7R12 in Soil. Applied and Environmental Microbiology, 2001, 67, 2627-2635.	3.1	54
69	Acyl-Homoserine Lactone Production Is More Common among Plant-Associated Pseudomonas spp. than among Soilborne Pseudomonas spp. Applied and Environmental Microbiology, 2001, 67, 1198-1209.	3.1	213
70	Fitness in soil and rhizosphere of Pseudomonas fluorescens C7R12 compared with a C7R12 mutant affected in pyoverdine synthesis and uptake. FEMS Microbiology Ecology, 2000, 34, 35-44.	2.7	74
71	The taxonomy of Pseudomonas fluorescens and Pseudomonas putida: current status and need for revision. Agronomy for Sustainable Development, 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. FEMS Microbiology Ecology, 1999, 30, 163-170.	2.7	58
74	Les microbes et le cultivateur. Biofutur, 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 Fusarium oxysporum Fo47 and Pseudomonas putida WCS358. Phytopathology, 1999, 89, 1073-1079.	2.2	133
76	Title is missing!. European Journal of Plant Pathology, 1998, 104, 903-910.	1.7	162
77	Involvement of the outer membrane lipopolysaccharides in the endophytic colonization of tomato roots by biocontrol Pseudomonas fluorescens strain WCS417r. New Phytologist, 1997, 135, 325-334.	7.3	201
78	Recent advances in the biological control of fusarium wilts. Pest Management Science, 1993, 37, 365-373.	0.4	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>. Applied and Environmental Microbiology, 1993, 59, 74-82.	3.1	125
80	Biological control of fusarium diseases by fluorescent Pseudomonas and non-pathogenic Fusarium. Crop Protection, 1991, 10, 279-286.	2.1	211
81	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
82	Population dynamics of non-pathogenicFusariumand fluorescentPseudomonasstrains in rockwool, a substratum for soilless culture. FEMS Microbiology Letters, 1991, 86, 177-184.	1.8	39
83	Recherches sur la rÃ©sistance des sols aux maladies. XIV. Modification du niveau de rÃ©ceptivitÃ© d'un sol rÃ©sistant et d'un sol sensible aux fusarioses vasculaires en rÃ©ponse Ã des apports de fer ou de glucose. Agronomy for Sustainable Development, 1988, 8, 155-162.	0.8	40
84	Recherches sur la rÃ©sistance des sols aux maladies. XV. Comparaison des populations de Pseudomonas fluorescents dans un sol rÃ©sistant et un sol sensible aux fusarioses vasculaires. Agronomy for Sustainable Development, 1988, 8, 243-249.	0.8	32