Klaus Schlaeppi

List of Publications by Citations

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Version: 2024-04-28

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

40 papers	6,711 citations	21 h-index	48 g-index
48 ext. papers	9,891 ext. citations	11.7 avg, IF	6.29 L-index

#	Paper	IF	Citations
40	Structure and functions of the bacterial microbiota of plants. *Annual Review of Plant Biology*, **2013**, 64, 807-38	30.7	1618
39	Revealing structure and assembly cues for Arabidopsis root-inhabiting bacterial microbiota. *Nature*, **2012**, 488, 91-5	50.4	1426
38	Keystone taxa as drivers of microbiome structure and functioning. *Nature Reviews Microbiology*, **2018**, 16, 567-576	22.2	610
37	Root exudate metabolites drive plant-soil feedbacks on growth and defense by shaping the rhizosphere microbiota. *Nature Communications*, **2018**, 9, 2738	17.4	414
36	Quantitative divergence of the bacterial root microbiota in Arabidopsis thaliana relatives. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 585-92	11.5	330
35	Core microbiomes for sustainable agroecosystems. *Nature Plants*, **2018**, 4, 247-257	11.5	328
34	The plant microbiome at work. *Molecular Plant-Microbe Interactions*, **2015**, 28, 212-7	3.6	305
33	Fungal-bacterial diversity and microbiome complexity predict ecosystem functioning. *Nature Communications*, **2019**, 10, 4841	17.4	267
32	Cropping practices manipulate abundance patterns of root and soil microbiome members paving the way to smart farming. *Microbiome*, **2018**, 6, 14	16.6	211
31	A widespread plant-fungal-bacterial symbiosis promotes plant biodiversity, plant nutrition and seedling recruitment. *ISME Journal*, **2016**, 10, 389-99	11.9	206
30	The glutathione-deficient mutant pad2-1 accumulates lower amounts of glucosinolates and is more susceptible to the insect herbivore Spodoptera littoralis. *Plant Journal*, **2008**, 55, 774-86	6.9	162
29	Disease resistance of Arabidopsis to Phytophthora brassicae is established by the sequential action of indole glucosinolates and camalexin. *Plant Journal*, **2010**, 62, 840-51	6.9	136
28	Deciphering composition and function of the root microbiome of a legume plant. *Microbiome*, **2017**, 5, 2	16.6	100
27	Detecting macroecological patterns in bacterial communities across independent studies of global soils. *Nature Microbiology*, **2018**, 3, 189-196	26.6	86
26	High-resolution community profiling of arbuscular mycorrhizal fungi. *New Phytologist*, **2016**, 212, 780-791	9.8	81
25	Root microbiota dynamics of perennial Arabis alpina are dependent on soil residence time but independent of flowering time. *ISME Journal*, **2017**, 11, 43-55	11.9	78
24	Root surface as a frontier for plant microbiome research. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2299-300	11.5	70

23	Regulatory and Functional Aspects of Indolic Metabolism in Plant Systemic Acquired Resistance. *Molecular Plant*, **2016**, 9, 662-681	14.4	40
22	Combined Field Inoculations of Bacteria, Arbuscular Mycorrhizal Fungi, and Entomopathogenic Nematodes and their Effects on Wheat Performance. *Frontiers in Plant Science*, **2017**, 8, 1809	6.2	28
21	Community Profiling of in Combination with Other Plant-Associated Fungi in Different Crop Species Using SMRT Sequencing. *Frontiers in Plant Science*, **2017**, 8, 2019	6.2	26
20	Establishment success and crop growth effects of an arbuscular mycorrhizal fungus inoculated into Swiss corn fields. *Agriculture, Ecosystems and Environment*, **2019**, 273, 13-24	5.7	22
19	Petunia- and Arabidopsis-Specific Root Microbiota Responses to Phosphate Supplementation. *Phytobiomes Journal*, **2019**, 3, 112-124	4.8	18
18	Indolic secondary metabolites protect Arabidopsis from the oomycete pathogen Phytophthora brassicae. *Plant Signaling and Behavior*, **2010**, 5, 1099-101	2.5	18
17	Evaluation of primer pairs for microbiome profiling from soils to humans within the One Health framework. *Molecular Ecology Resources*, **2020**, 20, 1558-1571	8.4	16
16	Continuum of root-fungal symbioses for plant nutrition. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11574-11576	11.5	14
15	Organic and conservation agriculture promote ecosystem multifunctionality. *Science Advances*, **2021**, 7,	14.3	12
14	Application of Mycorrhiza and Soil from a Permaculture System Improved Phosphorus Acquisition in Naranjilla. *Frontiers in Plant Science*, **2017**, 8, 1263	6.2	11
13	Reply to ©Can we predict microbial keystones?© *Nature Reviews Microbiology*, **2019**, 17, 194	22.2	11
12	miCROPe 2019 - emerging research priorities towards microbe-assisted crop production. *FEMS Microbiology Ecology*, **2020**, 96,	4.3	7
11	Specific and conserved patterns of microbiota-structuring by maize benzoxazinoids in the field. *Microbiome*, **2021**, 9, 103	16.6	7
10	Conservation tillage and organic farming induce minor variations in Pseudomonas abundance, their antimicrobial function and soil disease resistance. *FEMS Microbiology Ecology*, **2018**, 94,	4.3	6
9	Arabidopsis thaliana as Model for Studies on the Bacterial Root Microbiota **2013**, 243-256		5
8	Relative qPCR to quantify colonization of plant roots by arbuscular mycorrhizal fungi. *Mycorrhiza*, **2021**, 31, 137-148	3.9	3
7	Species-Specific Root Microbiota Dynamics in Response to Plant-Available Phosphorus		2
6	Evaluation of primer pairs for microbiome profiling across a food chain from soils to humans within the One Health framework		1

5	Lower relative abundance of ectomycorrhizal fungi under a warmer and drier climate is linked to enhanced soil organic matter decomposition. *New Phytologist*, **2021**, 232, 1399-1413	9.8	1
4	Soil composition and plant genotype determine benzoxazinoid-mediated plant-soil feedbacks in cereals. *Plant, Cell and Environment*, **2021**, 44, 3502-3514	8.4	1
3	Rhizobium Symbiotic Capacity Shapes Root-Associated Microbiomes in Soybean.. *Frontiers in Microbiology*, **2021**, 12, 709012	5.7	1
2	Contrasting Responses of Arbuscular Mycorrhizal Fungal Families to Simulated Climate Warming and Drying in a Semiarid Shrubland. *Microbial Ecology*, **2021**, 1	4.4	0
1	Plant chemistry and food web health. *New Phytologist*, **2021**, 231, 957-962	9.8	0