Klaus Schlaeppi

List of Publications by Year
in descending order

38 papers	11,986 citations	218677 26 h-index	289244 40 g-index
48 all docs	48 docs citations	48 times ranked	11131 citing authors

#	Article	IF	Citations
1	Structure and Functions of the Bacterial Microbiota of Plants. Annual Review of Plant Biology, 2013, 64, 807-838.	18.7	2,589
2	Revealing structure and assembly cues for Arabidopsis root-inhabiting bacterial microbiota. Nature, 2012, 488, 91-95.	27.8	2,127
3	Keystone taxa as drivers of microbiome structure and functioning. Nature Reviews Microbiology, 2018, 16, 567-576.	28.6	1,516
4	Root exudate metabolites drive plant-soil feedbacks on growth and defense by shaping the rhizosphere microbiota. Nature Communications, 2018, 9, 2738.	12.8	861
5	Fungal-bacterial diversity and microbiome complexity predict ecosystem functioning. Nature Communications, 2019, 10, 4841.	12.8	773
6	Core microbiomes for sustainable agroecosystems. Nature Plants, 2018, 4, 247-257.	9.3	639
7	Quantitative divergence of the bacterial root microbiota in <i>Arabidopsis thaliana</i> relatives. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 585-592.	7.1	539
8	The Plant Microbiome at Work. Molecular Plant-Microbe Interactions, 2015, 28, 212-217.	2.6	493
9	Cropping practices manipulate abundance patterns of root and soil microbiome members paving the way to smart farming. Microbiome, 2018, 6, 14.	11.1	399
10	A widespread plant-fungal-bacterial symbiosis promotes plant biodiversity, plant nutrition and seedling recruitment. ISME Journal, 2016, 10, 389-399.	9.8	315
11	The glutathioneâ€deficient mutant <i>pad2â€1</i> accumulates lower amounts of glucosinolates and is more susceptible to the insect herbivore <i>Spodoptera littoralis</i>. Plant Journal, 2008, 55, 774-786.	5.7	182
12	Disease resistance of Arabidopsis to Phytophthora brassicae is established by the sequential action of indole glucosinolates and camalexin. Plant Journal, 2010, 62, 840-851.	5.7	180
13	Deciphering composition and function of the root microbiome of a legume plant. Microbiome, 2017, 5, 2.	11.1	152
14	Detecting macroecological patterns in bacterial communities across independent studies of global soils. Nature Microbiology, 2018, 3, 189-196.	13.3	136
15	Root microbiota dynamics of perennial <i>Arabis alpina</i> are dependent on soil residence time but independent of flowering time. ISME Journal, 2017, 11, 43-55.	9.8	133
16	Root surface as a frontier for plant microbiome research. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2299-2300.	7.1	110
17	Highâ€resolution community profiling of arbuscular mycorrhizal fungi. New Phytologist, 2016, 212, 780-791.	7.3	104
18	Organic and conservation agriculture promote ecosystem multifunctionality. Science Advances, 2021, 7, .	10.3	104

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19	Regulatory and Functional Aspects of Indolic Metabolism in Plant Systemic Acquired Resistance. Molecular Plant, 2016, 9, 662-681.	8.3	62
20	Evaluation of primer pairs for microbiome profiling from soils to humans within the One Health framework. Molecular Ecology Resources, 2020, 20, 1558-1571.	4.8	61
21	Specific and conserved patterns of microbiota-structuring by maize benzoxazinoids in the field. Microbiome, 2021, 9, 103.	11.1	57
22	Community Profiling of Fusarium in Combination with Other Plant-Associated Fungi in Different Crop Species Using SMRT Sequencing. Frontiers in Plant Science, 2017, 8, 2019.	3.6	46
23	Combined Field Inoculations of Pseudomonas Bacteria, Arbuscular Mycorrhizal Fungi, and Entomopathogenic Nematodes and their Effects on Wheat Performance. Frontiers in Plant Science, 2017, 8, 1809.	3.6	45
24	Establishment success and crop growth effects of an arbuscular mycorrhizal fungus inoculated into Swiss corn fields. Agriculture, Ecosystems and Environment, 2019, 273, 13-24.	5.3	43
25	Petunia- and Arabidopsis-Specific Root Microbiota Responses to Phosphate Supplementation. Phytobiomes Journal, 2019, 3, 112-124.	2.7	37
26	Reply to â€˜Can we predict microbial keystones?â€™. Nature Reviews Microbiology, 2019, 17, 194-194.	28.6	29
27	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.	7.3	27
28	Indolic secondary metabolites protect Arabidopsis from the oomycete pathogen <i>Phytophthora brassicae</i>. Plant Signaling and Behavior, 2010, 5, 1099-1101.	2.4	25
29	Continuum of rootâ€“fungal symbioses for plant nutrition. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11574-11576.	7.1	22
30	Relative qPCR to quantify colonization of plant roots by arbuscular mycorrhizal fungi. Mycorrhiza, 2021, 31, 137-148.	2.8	18
31	Rhizobium Symbiotic Capacity Shapes Root-Associated Microbiomes in Soybean. Frontiers in Microbiology, 2021, 12, 709012.	3.5	14
32	Application of Mycorrhiza and Soil from a Permaculture System Improved Phosphorus Acquisition in Naranjilla. Frontiers in Plant Science, 2017, 8, 1263.	3.6	13
33	miCROPe 2019 â€“ emerging research priorities towards microbe-assisted crop production. FEMS Microbiology Ecology, 2020, 96, .	2.7	12
34	Conservation tillage and organic farming induce minor variations in Pseudomonas abundance, their antimicrobial function and soil disease resistance. FEMS Microbiology Ecology, 2018, 94, .	2.7	10
35	Soil composition and plant genotype determine benzoxazinoidâ€mediated plantâ€“soil feedbacks in cereals. Plant, Cell and Environment, 2021, 44, 3732-3744.	5.7	8
36	Contrasting Responses of Arbuscular Mycorrhizal Fungal Families to Simulated Climate Warming and Drying in a Semiarid Shrubland. Microbial Ecology, 2022, 84, 941-944.	2.8	8

#	Article	IF	Citations
37	Plant chemistry and food web health. New Phytologist, 2021, 231, 957-962.	7.3	4
38	Editorial overview: Environmental microbiology: #PlantMicrobiome. Current Opinion in Microbiology, 2019, 49, iii-v.	5.1	0