

Silke Langenheder

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

6,390
citations

101543

36
h-index

118850

62
g-index

69
all docs

69
docs citations

69
times ranked

7486
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals of Microbial Community Resistance and Resilience. <i>Frontiers in Microbiology</i> , 2012, 3, 417.	3.5	1,131
2	Local and regional factors influencing bacterial community assembly. <i>Environmental Microbiology Reports</i> , 2012, 4, 1-9.	2.4	434
3	Biogeography of bacterial communities exposed to progressive long-term environmental change. <i>ISME Journal</i> , 2013, 7, 937-948.	9.8	330
4	Species sorting and neutral processes are both important during the initial assembly of bacterial communities. <i>ISME Journal</i> , 2011, 5, 1086-1094.	9.8	267
5	Heterotrophic Bacterial Growth Efficiency and Community Structure at Different Natural Organic Carbon Concentrations. <i>Applied and Environmental Microbiology</i> , 2003, 69, 3701-3709.	3.1	261
6	Unraveling assembly of stream biofilm communities. <i>ISME Journal</i> , 2012, 6, 1459-1468.	9.8	242
7	Function-specific response to depletion of microbial diversity. <i>ISME Journal</i> , 2011, 5, 351-361.	9.8	183
8	Weak coupling between community composition and functioning of aquatic bacteria. <i>Limnology and Oceanography</i> , 2005, 50, 957-967.	3.1	170
9	Decomposing multiple dimensions of stability in global change experiments. <i>Ecology Letters</i> , 2018, 21, 21-30.	6.4	167
10	The importance of species sorting differs between habitat generalists and specialists in bacterial communities. <i>FEMS Microbiology Ecology</i> , 2014, 87, 102-112.	2.7	166
11	Structure and Function of Bacterial Communities Emerging from Different Sources under Identical Conditions. <i>Applied and Environmental Microbiology</i> , 2006, 72, 212-220.	3.1	155
12	Factors influencing aquatic and terrestrial bacterial community assembly. <i>Environmental Microbiology Reports</i> , 2019, 11, 306-315.	2.4	152
13	Bacterial Biodiversity-Ecosystem Functioning Relations Are Modified by Environmental Complexity. <i>PLoS ONE</i> , 2010, 5, e10834.	2.5	149
14	Regulation of bacterial biomass and community structure by metazoan and protozoan predation. <i>Limnology and Oceanography</i> , 2001, 46, 121-134.	3.1	146
15	THE ROLE OF ENVIRONMENTAL AND SPATIAL FACTORS FOR THE COMPOSITION OF AQUATIC BACTERIAL COMMUNITIES. <i>Ecology</i> , 2007, 88, 2154-2161.	3.2	138
16	Environmental and spatial characterisation of bacterial community composition in soil to inform sampling strategies. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2292-2298.	8.8	130
17	Regional invariance among microbial communities. <i>Ecology Letters</i> , 2010, 13, 118-127.	6.4	129
18	Temporal variation of $\hat{\alpha}^2$ -diversity and assembly mechanisms in a bacterial metacommunity. <i>ISME Journal</i> , 2012, 6, 1107-1114.	9.8	127

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19	Influence of dissolved organic matter source on lake bacterioplankton structure and function – implications for seasonal dynamics of community composition. <i>FEMS Microbiology Ecology</i> , 2006, 56, 406-417.	2.7	115
20	Ubiquity of <i>Polynucleobacter necessarius</i> ssp. <i>asymbioticus</i> in lentic freshwater habitats of a heterogeneous 2000 km ² area. <i>Environmental Microbiology</i> , 2010, 12, 658-669.	3.8	115
21	Effects of Disturbance Intensity and Frequency on Bacterial Community Composition and Function. <i>PLoS ONE</i> , 2012, 7, e36959.	2.5	114
22	Salinity as a structuring factor for the composition and performance of bacterioplankton degrading riverine DOC. <i>FEMS Microbiology Ecology</i> , 2003, 45, 189-202.	2.7	110
23	Freshwater bacterioplankton richness in oligotrophic lakes depends on nutrient availability rather than on species-area relationships. <i>ISME Journal</i> , 2012, 6, 1127-1136.	9.8	105
24	Freshwater salinisation: a research agenda for a saltier world. <i>Trends in Ecology and Evolution</i> , 2022, 37, 440-453.	8.7	93
25	Mechanisms determining the fate of dispersed bacterial communities in new environments. <i>ISME Journal</i> , 2013, 7, 61-71.	9.8	91
26	Microbial Community Resilience across Ecosystems and Multiple Disturbances. <i>Microbiology and Molecular Biology Reviews</i> , 2021, 85, .	6.6	87
27	Thickness determines microbial community structure and function in nitrifying biofilms via deterministic assembly. <i>Scientific Reports</i> , 2019, 9, 5110.	3.3	74
28	Resource availability influences the diversity of a functional group of heterotrophic soil bacteria. <i>Environmental Microbiology</i> , 2008, 10, 2245-2256.	3.8	71
29	The spatial structure of bacterial communities is influenced by historical environmental conditions. <i>Ecology</i> , 2014, 95, 1134-1140.	3.2	67
30	Effects of multiple dimensions of bacterial diversity on functioning, stability and multifunctionality. <i>Ecology</i> , 2016, 97, 2716-2728.	3.2	64
31	Using null models to compare bacterial and microeukaryotic metacommunity assembly under shifting environmental conditions. <i>Scientific Reports</i> , 2020, 10, 2455.	3.3	64
32	Can marine bacteria be recruited from freshwater sources and the air?. <i>ISME Journal</i> , 2014, 8, 2423-2430.	9.8	55
33	The legacy of the past: effects of historical processes on microbial metacommunities. <i>Aquatic Microbial Ecology</i> , 2017, 79, 13-19.	1.8	49
34	Current water quality guidelines across North America and Europe do not protect lakes from salinization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	49
35	Combined effects of zooplankton grazing and dispersal on the diversity and assembly mechanisms of bacterial metacommunities. <i>Environmental Microbiology</i> , 2015, 17, 2275-2287.	3.8	47
36	Dispersal Modifies the Diversity and Composition of Active Bacterial Communities in Response to a Salinity Disturbance. <i>Frontiers in Microbiology</i> , 2018, 9, 2188.	3.5	45

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37	Dispersal timing determines the importance of priority effects in bacterial communities. <i>ISME Journal</i> , 2018, 12, 644-646.	9.8	44
38	Bacterial metacommunity organization in a highly-connected aquatic system. <i>FEMS Microbiology Ecology</i> , 2017, 93, fiw225.	2.7	41
39	Functional and Compositional Stability of Bacterial Metacommunities in Response to Salinity Changes. <i>Frontiers in Microbiology</i> , 2017, 8, 948.	3.5	37
40	Association between Aquatic Micropollutant Dissipation and River Sediment Bacterial Communities. <i>Environmental Science & Technology</i> , 2020, 54, 14380-14392.	10.0	37
41	Role of functionally dominant species in varying environmental regimes: evidence for the performance-enhancing effect of biodiversity. <i>BMC Ecology</i> , 2012, 12, 14.	3.0	34
42	Dispersal timing and drought history influence the response of bacterioplankton to drying–rewetting stress. <i>ISME Journal</i> , 2017, 11, 1764-1776.	9.8	34
43	Effects of Dispersal and Initial Diversity on the Composition and Functional Performance of Bacterial Communities. <i>PLoS ONE</i> , 2016, 11, e0155239.	2.5	28
44	Increased water colour affects freshwater plankton communities in a mesocosm study. <i>Aquatic Microbial Ecology</i> , 2018, 81, 1-17.	1.8	27
45	Lake salinization drives consistent losses of zooplankton abundance and diversity across coordinated mesocosm experiments. <i>Limnology and Oceanography Letters</i> , 2023, 8, 19-29.	3.9	21
46	Changes in bacterial community composition along a solar radiation gradient in humic waters. <i>Aquatic Sciences</i> , 2006, 68, 415-424.	1.5	19
47	Contribution of different dispersal sources to the metabolic response of lake bacterioplankton following a salinity change. <i>Environmental Microbiology</i> , 2017, 19, 251-260.	3.8	19
48	High abundances of the nuisance raphidophyte <i>Gonyostomum semen</i> in brown water lakes are associated with high concentrations of iron. <i>Scientific Reports</i> , 2018, 8, 13463.	3.3	18
49	Repeated disturbances affect functional but not compositional resistance and resilience in an aquatic bacterioplankton community. <i>Environmental Microbiology Reports</i> , 2018, 10, 493-500.	2.4	18
50	Accounting for temporal change in multiple biodiversity patterns improves the inference of metacommunity processes. <i>Ecology</i> , 2022, 103, e3683.	3.2	17
51	DOES ECOSYSTEM SIZE DETERMINE AQUATIC BACTERIAL RICHNESS? COMMENT. <i>Ecology</i> , 2007, 88, 252-253.	3.2	16
52	Growth dynamics within bacterial communities in riverine and estuarine batch cultures. <i>Aquatic Microbial Ecology</i> , 2004, 37, 137-148.	1.8	16
53	Remnants of marine bacterial communities can be retrieved from deep sediments in lakes of marine origin. <i>Environmental Microbiology Reports</i> , 2016, 8, 479-485.	2.4	10
54	Warming mediates the resistance of aquatic bacteria to invasion during community coalescence. <i>Molecular Ecology</i> , 2021, 30, 1345-1356.	3.9	9

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55	Importance of space and the local environment for linking local and regional abundances of microbes. <i>Aquatic Microbial Ecology</i> , 2012, 67, 35-45.	1.8	8
56	Streamlined and Abundant Bacterioplankton Thrive in Functional Cohorts. <i>MSystems</i> , 2020, 5, .	3.8	8
57	Functionally reversible impacts of disturbances on lake food webs linked to spatial and seasonal dependencies. <i>Ecology</i> , 2021, 102, e03283.	3.2	7
58	<scp>SITES AquaNet</scp>: An open infrastructure for mesocosm experiments with high frequency sensor monitoring across lakes. <i>Limnology and Oceanography: Methods</i> , 2021, 19, 385-400.	2.0	7
59	Integrating multiple dimensions of ecological stability into a vulnerability framework. <i>Journal of Ecology</i> , 2022, 110, 374-386.	4.0	7
60	Disturbance history can increase functional stability in the face of both repeated disturbances of the same type and novel disturbances. <i>Scientific Reports</i> , 2020, 10, 11333.	3.3	6
61	River biofilms adapted to anthropogenic disturbances are more resistant to WWTP inputs. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	2.7	5
62	Weak seasonality and synchrony among bacterial communities in small pools. <i>Aquatic Microbial Ecology</i> , 2013, 69, 223-229.	1.8	3