

Markus Lange

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

4,398
citations

257450

24
h-index

330143

37
g-index

47
all docs

47
docs citations

47
times ranked

6266
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant diversity increases soil microbial activity and soil carbon storage. <i>Nature Communications</i> , 2015, 6, 6707.	12.8	949
2	Bottom-up effects of plant diversity on multitrophic interactions in a biodiversity experiment. <i>Nature</i> , 2010, 468, 553-556.	27.8	786
3	Biodiversity at multiple trophic levels is needed for ecosystem multifunctionality. <i>Nature</i> , 2016, 536, 456-459.	27.8	526
4	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. <i>Basic and Applied Ecology</i> , 2017, 23, 1-73.	2.7	307
5	Persistence of dissolved organic matter explained by molecular changes during its passage through soil. <i>Nature Geoscience</i> , 2019, 12, 755-761.	12.9	230
6	Biotic and Abiotic Properties Mediating Plant Diversity Effects on Soil Microbial Communities in an Experimental Grassland. <i>PLoS ONE</i> , 2014, 9, e96182.	2.5	188
7	The impact of even-aged and uneven-aged forest management on regional biodiversity of multiple taxa in European beech forests. <i>Journal of Applied Ecology</i> , 2018, 55, 267-278.	4.0	188
8	Effects of forest management on ground-dwelling beetles (Coleoptera; Carabidae, Staphylinidae) in Central Europe are mainly mediated by changes in forest structure. <i>Forest Ecology and Management</i> , 2014, 329, 166-176.	3.2	95
9	The results of biodiversity-ecosystem functioning experiments are realistic. <i>Nature Ecology and Evolution</i> , 2020, 4, 1485-1494.	7.8	93
10	A comparison of the strength of biodiversity effects across multiple functions. <i>Oecologia</i> , 2013, 173, 223-237.	2.0	91
11	Land use in mountain grasslands alters drought response and recovery of carbon allocation and plant-microbial interactions. <i>Journal of Ecology</i> , 2018, 106, 1230-1243.	4.0	90
12	Grassland management intensification weakens the associations among the diversities of multiple plant and animal taxa. <i>Ecology</i> , 2015, 96, 1492-1501.	3.2	75
13	Plant Diversity Impacts Decomposition and Herbivory via Changes in Aboveground Arthropods. <i>PLoS ONE</i> , 2014, 9, e106529.	2.5	73
14	Plant diversity generates enhanced soil microbial access to recently photosynthesized carbon in the rhizosphere. <i>Soil Biology and Biochemistry</i> , 2016, 94, 122-132.	8.8	69
15	Plant species richness and functional groups have different effects on soil water content in a decade-long grassland experiment. <i>Journal of Ecology</i> , 2019, 107, 127-141.	4.0	69
16	Plant diversity shapes microbial-rhizosphere effects on P mobilisation from organic matter in soil. <i>Ecology Letters</i> , 2015, 18, 1356-1365.	6.4	57
17	Effect of pitfall trap type and diameter on vertebrate bycatches and ground beetle (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlook 5.2 51	5.2	51
18	Biodiversity increases multitrophic energy use efficiency, flow and storage in grasslands. <i>Nature Ecology and Evolution</i> , 2020, 4, 393-405.	7.8	45

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19	Genotypic variability enhances the reproducibility of an ecological study. <i>Nature Ecology and Evolution</i> , 2018, 2, 279-287.	7.8	41
20	Does organic grassland farming benefit plant and arthropod diversity at the expense of yield and soil fertility?. <i>Agriculture, Ecosystems and Environment</i> , 2013, 177, 1-9.	5.3	40
21	Above- and belowground biodiversity jointly tighten the P cycle in agricultural grasslands. <i>Nature Communications</i> , 2021, 12, 4431.	12.8	40
22	Continental-scale controls on soil organic carbon across sub-Saharan Africa. <i>Soil</i> , 2021, 7, 305-332.	4.9	30
23	How plant diversity impacts the coupled water, nutrient and carbon cycles. <i>Advances in Ecological Research</i> , 2019, 61, 185-219.	2.7	29
24	Plant functional diversity increases grassland productivity-related water vapor fluxes: an Ecotron and modeling approach. <i>Ecology</i> , 2016, 97, 2044-2054.	3.2	25
25	Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term biodiversity-ecosystem functioning relationships. <i>Research Ideas and Outcomes</i> , 0, 5, .	1.0	23
26	A new experimental approach to test why biodiversity effects strengthen as ecosystems age. <i>Advances in Ecological Research</i> , 2019, , 221-264.	2.7	21
27	Differential Responses of Herbivores and Herbivory to Management in Temperate European Beech. <i>PLoS ONE</i> , 2014, 9, e104876.	2.5	19
28	Soil microbial communities and their carbon assimilation are affected by soil properties and season but not by plants differing in their photosynthetic pathways (C3 vs. C4). <i>Biogeochemistry</i> , 2019, 142, 175-187.	3.5	18
29	Plant diversity enhances production and downward transport of biodegradable dissolved organic matter. <i>Journal of Ecology</i> , 2021, 109, 1284-1297.	4.0	17
30	The impact of forest management on litter-dwelling invertebrates: a subtropical-temperate contrast. <i>Biodiversity and Conservation</i> , 2011, 20, 2133-2147.	2.6	16
31	Connecting experimental biodiversity research to real-world grasslands. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 33, 78-88.	2.7	15
32	Plants with arbuscular mycorrhizal fungi efficiently acquire Nitrogen from substrate additions by shaping the decomposer community composition and their net plant carbon demand. <i>Plant and Soil</i> , 2022, 475, 473-490.	3.7	15
33	Neighbourhood and stand structure affect stemflow generation in a heterogeneous deciduous temperate forest. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4433-4452.	4.9	14
34	Root chemistry and soil fauna, but not soil abiotic conditions explain the effects of plant diversity on root decomposition. <i>Oecologia</i> , 2017, 185, 499-511.	2.0	13
35	The use of forest inventory data for placing flight-interception traps in the forest canopy. <i>Entomologia Experimentalis Et Applicata</i> , 2011, 140, 35-44.	1.4	10
36	Nematode grazing increases the allocation of plant-derived carbon to soil bacteria and saprophytic fungi, and activates bacterial species of the rhizosphere. <i>Pedobiologia</i> , 2022, 90, 150787.	1.2	10

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37	Functional composition has stronger impact than species richness on carbon gain and allocation in experimental grasslands. PLoS ONE, 2019, 14, e0204715.	2.5	8
38	Phosphorus Release from Mineral Soil by Acid Hydrolysis: Method Development, Kinetics, and Plant Community Composition Effects. Soil Science Society of America Journal, 2017, 81, 1389-1400.	2.2	4
39	Drought Reduces Release of Plant Matter Into Dissolved Organic Matter Potentially Restraining Ecosystem Recovery. Frontiers in Soil Science, 0, 2, .	2.2	2