

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 | 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 |
| 2 | 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 |
| 3 | Plant diversity enhances production and downward transport of biodegradable dissolved organic matter. <i>Journal of Ecology</i> , 2021, 109, 1284-1297. | 4.0 | 17 |
| 4 | Continental-scale controls on soil organic carbon across sub-Saharan Africa. <i>Soil</i> , 2021, 7, 305-332. | 4.9 | 30 |
| 5 | Above- and belowground biodiversity jointly tighten the P cycle in agricultural grasslands. <i>Nature Communications</i> , 2021, 12, 4431. | 12.8 | 40 |
| 6 | The results of biodiversityâ€™ecosystem functioning experiments are realistic. <i>Nature Ecology and Evolution</i> , 2020, 4, 1485-1494. | 7.8 | 93 |
| 7 | Biodiversity increases multitrophic energy use efficiency, flow and storage in grasslands. <i>Nature Ecology and Evolution</i> , 2020, 4, 393-405. | 7.8 | 45 |
| 8 | Plant species richness and functional groups have different effects on soil water content in a decadeâ€™long grassland experiment. <i>Journal of Ecology</i> , 2019, 107, 127-141. | 4.0 | 69 |
| 9 | 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 |
| 10 | How plant diversity impacts the coupled water, nutrient and carbon cycles. <i>Advances in Ecological Research</i> , 2019, 61, 185-219. | 2.7 | 29 |
| 11 | 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 |
| 12 | Functional composition has stronger impact than species richness on carbon gain and allocation in experimental grasslands. <i>PLoS ONE</i> , 2019, 14, e0204715. | 2.5 | 8 |
| 13 | 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 |
| 14 | 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 |
| 15 | Genotypic variability enhances the reproducibility of an ecological study. <i>Nature Ecology and Evolution</i> , 2018, 2, 279-287. | 7.8 | 41 |
| 16 | Land use in mountain grasslands alters drought response and recovery of carbon allocation and plantâ€™microbial interactions. <i>Journal of Ecology</i> , 2018, 106, 1230-1243. | 4.0 | 90 |
| 17 | The impact of evenâ€™aged and unevenâ€™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 |
| 18 | Connecting experimental biodiversity research to real-world grasslands. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 33, 78-88. | 2.7 | 15 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Phosphorus Release from Mineral Soil by Acid Hydrolysis: Method Development, Kinetics, and Plant Community Composition Effects. <i>Soil Science Society of America Journal</i> , 2017, 81, 1389-1400. | 2.2 | 4 |
| 22 | 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 |
| 23 | Biodiversity at multiple trophic levels is needed for ecosystem multifunctionality. <i>Nature</i> , 2016, 536, 456-459. | 27.8 | 526 |
| 24 | 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 |
| 25 | Plant diversity shapes microbe-rhizosphere effects on P mobilisation from organic matter in soil. <i>Ecology Letters</i> , 2015, 18, 1356-1365. | 6.4 | 57 |
| 26 | 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 |
| 27 | Plant diversity increases soil microbial activity and soil carbon storage. <i>Nature Communications</i> , 2015, 6, 6707. | 12.8 | 949 |
| 28 | 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 |
| 29 | Differential Responses of Herbivores and Herbivory to Management in Temperate European Beech. <i>PLoS ONE</i> , 2014, 9, e104876. | 2.5 | 19 |
| 30 | 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 |
| 31 | Plant Diversity Impacts Decomposition and Herbivory via Changes in Aboveground Arthropods. <i>PLoS ONE</i> , 2014, 9, e106529. | 2.5 | 73 |
| 32 | 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 |
| 33 | A comparison of the strength of biodiversity effects across multiple functions. <i>Oecologia</i> , 2013, 173, 223-237. | 2.0 | 91 |
| 34 | Effect of pitfall trap type and diameter on vertebrate by-catches and ground beetle (Coleoptera: Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50 | 3.2 | 51 |
| 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 | 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 |

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|----|---|------|-----------|
| 37 | Bottom-up effects of plant diversity on multitrophic interactions in a biodiversity experiment. <i>Nature</i> , 2010, 468, 553-556. | 27.8 | 786 |
| 38 | 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 |
| 39 | Drought Reduces Release of Plant Matter Into Dissolved Organic Matter Potentially Restraining Ecosystem Recovery. <i>Frontiers in Soil Science</i> , 0, 2, . | 2.2 | 2 |