Stephan HÃ¤ttenschwiler

List of Publications by Year
in descending order

34 papers	5,109 citations	186209 28 h-index	377752 34 g-index
35 all docs	35 docs citations	35 times ranked	6005 citing authors

#	Article	IF	Citations
1	Climatic conditions, not above- and belowground resource availability and uptake capacity, mediate tree diversity effects on productivity and stability. Science of the Total Environment, 2022, 812, 152560.	3.9	8
2	Trait functional diversity explains mixture effects on litter decomposition at the arid end of a climate gradient. Journal of Ecology, 2022, 110, 2219-2231.	1.9	11
3	Increasing rates of longâ€term nitrogen deposition consistently increased litter decomposition in a semiâ€arid grassland. New Phytologist, 2021, 229, 296-307.	3.5	54
4	Relative effects of climate and litter traits on decomposition change with time, climate and trait variability. Journal of Ecology, 2021, 109, 447-458.	1.9	37
5	Aboveâ€and belowâ€ground complementarity rather than selection drive tree diversityâ€"productivity relationships in European forests. Functional Ecology, 2021, 35, 1756-1767.	1.7	15
6	Tree species mixing affects soil microbial functioning indirectly via root and litter traits and soil parameters in European forests. Functional Ecology, 2021, 35, 2190-2204.	1.7	32
7	Carbon limitation overrides acidification in mediating soil microbial activity to nitrogen enrichment in a temperate grassland. Global Change Biology, 2021, 27, 5976-5988.	4.2	55
8	Tree diversity is key for promoting the diversity and abundance of forestâ€associated taxa in Europe. Oikos, 2020, 129, 133-146.	1.2	80
9	Diversity-decomposition relationships in forests worldwide. ELife, 2020, 9, .	2.8	45
10	Temporal Shifts in Plant Diversity Effects on Carbon and Nitrogen Dynamics During Litter Decomposition in a Mediterranean Shrubland Exposed to Reduced Precipitation. Ecosystems, 2019, 22, 939-954.	1.6	26
11	Identifying the tree species compositions that maximize ecosystem functioning in European forests. Journal of Applied Ecology, 2019, 56, 733-744.	1.9	58
12	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. Ecology Letters, 2018, 21, 31-42.	3.0	74
13	Contrasting dynamics and trait controls in first-order root compared with leaf litter decomposition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10392-10397.	3.3	168
14	Tree species diversity affects decomposition through modified microâ€environmental conditions across European forests. New Phytologist, 2017, 214, 1281-1293.	3.5	112
15	Plant litter diversity increases microbial abundance, fungal diversity, and carbon and nitrogen cycling in a Mediterranean shrubland. Soil Biology and Biochemistry, 2017, 111, 124-134.	4.2	103
16	Changes in soil microbial substrate utilization in response to altered litter diversity and precipitation in a Mediterranean shrubland. Biology and Fertility of Soils, 2017, 53, 171-185.	2.3	31
17	Stoichiometric plasticity of microbial communities is similar between litter and soil in a tropical rainforest. Scientific Reports, 2017, 7, 12498.	1.6	23
18	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. Ecology Letters, 2017, 20, 1414-1426.	3.0	244

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19	Temporal dynamics of biotic and abiotic drivers of litter decomposition. Ecology Letters, 2016, 19, 554-563.	3.0	211
20	Jack-of-all-trades effects drive biodiversityâ€“ecosystem multifunctionality relationships in European forests. Nature Communications, 2016, 7, 11109.	5.8	185
21	Diversity of leaf litter leachates from temperate forest trees and its consequences for soil microbial activity. Biogeochemistry, 2016, 129, 373-388.	1.7	54
22	Drivers of earthworm incidence and abundance across European forests. Soil Biology and Biochemistry, 2016, 99, 167-178.	4.2	53
23	The importance of litter traits and decomposers for litter decomposition: a comparison of aquatic and terrestrial ecosystems within and across biomes. Functional Ecology, 2016, 30, 819-829.	1.7	190
24	Biotic homogenization can decrease landscape-scale forest multifunctionality. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3557-3562.	3.3	196
25	C, N and P fertilization in an Amazonian rainforest supports stoichiometric dissimilarity as a driver of litter diversity effects on decomposition. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141682.	1.2	58
26	Litter fingerprint on microbial biomass, activity, and community structure in the underlying soil. Plant and Soil, 2014, 379, 79-91.	1.8	125
27	Consequences of biodiversity loss for litter decomposition across biomes. Nature, 2014, 509, 218-221.	13.7	600
28	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. Perspectives in Plant Ecology, Evolution and Systematics, 2013, 15, 281-291.	1.1	179
29	Beyond global change: lessons from 25Âyears of CO2 research. Oecologia, 2013, 171, 639-651.	0.9	55
30	Highly consistent effects of plant litter identity and functional traits on decomposition across a latitudinal gradient. Ecology Letters, 2012, 15, 1033-1041.	3.0	356
31	Does variability in litter quality determine soil microbial respiration in an Amazonian rainforest?. Soil Biology and Biochemistry, 2011, 43, 1014-1022.	4.2	70
32	Interspecific variation in leaf litter tannins drives decomposition in a tropical rain forest of French Guiana. Ecology, 2010, 91, 2080-2091.	1.5	165
33	High variation in foliage and leaf litter chemistry among 45 tree species of a neotropical rainforest community. New Phytologist, 2008, 179, 165-175.	3.5	178
34	Biodiversity and Litter Decomposition in Terrestrial Ecosystems. Annual Review of Ecology, Evolution, and Systematics, 2005, 36, 191-218.	3.8	1,258