

# Stephan Härtenschwiler

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

5,109  
citations

186265

28  
h-index

377865

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

6005  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiversity and Litter Decomposition in Terrestrial Ecosystems. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2005, 36, 191-218.	8.3	1,258
2	Consequences of biodiversity loss for litter decomposition across biomes. <i>Nature</i> , 2014, 509, 218-221.	27.8	600
3	Highly consistent effects of plant litter identity and functional traits on decomposition across a latitudinal gradient. <i>Ecology Letters</i> , 2012, 15, 1033-1041.	6.4	356
4	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. <i>Ecology Letters</i> , 2017, 20, 1414-1426.	6.4	244
5	Temporal dynamics of biotic and abiotic drivers of litter decomposition. <i>Ecology Letters</i> , 2016, 19, 554-563.	6.4	211
6	Biotic homogenization can decrease landscape-scale forest multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3557-3562.	7.1	196
7	The importance of litter traits and decomposers for litter decomposition: a comparison of aquatic and terrestrial ecosystems within and across biomes. <i>Functional Ecology</i> , 2016, 30, 819-829.	3.6	190
8	Jack-of-all-trades effects drive biodiversity–ecosystem multifunctionality relationships in European forests. <i>Nature Communications</i> , 2016, 7, 11109.	12.8	185
9	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013, 15, 281-291.	2.7	179
10	High variation in foliage and leaf litter chemistry among 45 tree species of a neotropical rainforest community. <i>New Phytologist</i> , 2008, 179, 165-175.	7.3	178
11	Contrasting dynamics and trait controls in first-order root compared with leaf litter decomposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10392-10397.	7.1	168
12	Interspecific variation in leaf litter tannins drives decomposition in a tropical rain forest of French Guiana. <i>Ecology</i> , 2010, 91, 2080-2091.	3.2	165
13	Litter fingerprint on microbial biomass, activity, and community structure in the underlying soil. <i>Plant and Soil</i> , 2014, 379, 79-91.	3.7	125
14	Tree species diversity affects decomposition through modified microenvironmental conditions across European forests. <i>New Phytologist</i> , 2017, 214, 1281-1293.	7.3	112
15	Plant litter diversity increases microbial abundance, fungal diversity, and carbon and nitrogen cycling in a Mediterranean shrubland. <i>Soil Biology and Biochemistry</i> , 2017, 111, 124-134.	8.8	103
16	Tree diversity is key for promoting the diversity and abundance of forest-associated taxa in Europe. <i>Oikos</i> , 2020, 129, 133-146.	2.7	80
17	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , 2018, 21, 31-42.	6.4	74
18	Does variability in litter quality determine soil microbial respiration in an Amazonian rainforest?. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1014-1022.	8.8	70

#	ARTICLE	IF	CITATIONS
19	C, N and P fertilization in an Amazonian rainforest supports stoichiometric dissimilarity as a driver of litter diversity effects on decomposition. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141682.	2.6	58
20	Identifying the tree species compositions that maximize ecosystem functioning in European forests. <i>Journal of Applied Ecology</i> , 2019, 56, 733-744.	4.0	58
21	Beyond global change: lessons from 25 years of CO <sub>2</sub> research. <i>Oecologia</i> , 2013, 171, 639-651.	2.0	55
22	Carbon limitation overrides acidification in mediating soil microbial activity to nitrogen enrichment in a temperate grassland. <i>Global Change Biology</i> , 2021, 27, 5976-5988.	9.5	55
23	Diversity of leaf litter leachates from temperate forest trees and its consequences for soil microbial activity. <i>Biogeochemistry</i> , 2016, 129, 373-388.	3.5	54
24	Increasing rates of long-term nitrogen deposition consistently increased litter decomposition in a semi-arid grassland. <i>New Phytologist</i> , 2021, 229, 296-307.	7.3	54
25	Drivers of earthworm incidence and abundance across European forests. <i>Soil Biology and Biochemistry</i> , 2016, 99, 167-178.	8.8	53
26	Diversity-decomposition relationships in forests worldwide. <i>ELife</i> , 2020, 9, .	6.0	45
27	Relative effects of climate and litter traits on decomposition change with time, climate and trait variability. <i>Journal of Ecology</i> , 2021, 109, 447-458.	4.0	37
28	Tree species mixing affects soil microbial functioning indirectly via root and litter traits and soil parameters in European forests. <i>Functional Ecology</i> , 2021, 35, 2190-2204.	3.6	32
29	Changes in soil microbial substrate utilization in response to altered litter diversity and precipitation in a Mediterranean shrubland. <i>Biology and Fertility of Soils</i> , 2017, 53, 171-185.	4.3	31
30	Temporal Shifts in Plant Diversity Effects on Carbon and Nitrogen Dynamics During Litter Decomposition in a Mediterranean Shrubland Exposed to Reduced Precipitation. <i>Ecosystems</i> , 2019, 22, 939-954.	3.4	26
31	Stoichiometric plasticity of microbial communities is similar between litter and soil in a tropical rainforest. <i>Scientific Reports</i> , 2017, 7, 12498.	3.3	23
32	Above- and below-ground complementarity rather than selection drive tree diversity-productivity relationships in European forests. <i>Functional Ecology</i> , 2021, 35, 1756-1767.	3.6	15
33	Trait functional diversity explains mixture effects on litter decomposition at the arid end of a climate gradient. <i>Journal of Ecology</i> , 2022, 110, 2219-2231.	4.0	11
34	Climatic conditions, not above- and belowground resource availability and uptake capacity, mediate tree diversity effects on productivity and stability. <i>Science of the Total Environment</i> , 2022, 812, 152560.	8.0	8