

# Ina C Meier

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

3,758  
citations

159573

30  
h-index

276858

41  
g-index

50  
all docs

50  
docs citations

50  
times ranked

4423  
citing authors

#	ARTICLE	IF	CITATIONS
1	The fungal collaboration gradient dominates the root economics space in plants. <i>Science Advances</i> , 2020, 6, .	10.3	377
2	Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. <i>New Phytologist</i> , 2021, 232, 1123-1158.	7.3	277
3	Roots and fungi accelerate carbon and nitrogen cycling in forests exposed to elevated CO <sub>2</sub> . <i>Ecology Letters</i> , 2012, 15, 1042-1049.	6.4	251
4	Root exudates increase N availability by stimulating microbial turnover of fast-cycling N pools. <i>Soil Biology and Biochemistry</i> , 2017, 106, 119-128.	8.8	222
5	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. <i>New Phytologist</i> , 2021, 232, 973-1122.	7.3	216
6	Belowground drought response of European beech: fine root biomass and carbon partitioning in 14 mature stands across a precipitation gradient. <i>Global Change Biology</i> , 2008, 14, 2081-2095.	9.5	187
7	Surplus Carbon Drives Allocation and Plant-Soil Interactions. <i>Trends in Ecology and Evolution</i> , 2020, 35, 1110-1118.	8.7	171
8	An integrated framework of plant form and function: the belowground perspective. <i>New Phytologist</i> , 2021, 232, 42-59.	7.3	153
9	Genotypic variation and phenotypic plasticity in the drought response of fine roots of European beech. <i>Tree Physiology</i> , 2008, 28, 297-309.	3.1	134
10	Leaf Size and Leaf Area Index in <i>Fagus sylvatica</i> Forests: Competing Effects of Precipitation, Temperature, and Nitrogen Availability. <i>Ecosystems</i> , 2008, 11, 655-669.	3.4	133
11	Root Exudates Induce Soil Macroaggregation Facilitated by Fungi in Subsoil. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	128
12	On the niche breadth of <i>Fagus sylvatica</i> : soil nutrient status in 50 Central European beech stands on a broad range of bedrock types. <i>Annals of Forest Science</i> , 2006, 63, 355-368.	2.0	126
13	Variation of soil and biomass carbon pools in beech forests across a precipitation gradient. <i>Global Change Biology</i> , 2010, 16, 1035-1045.	9.5	101
14	Root Branching Is a Leading Root Trait of the Plant Economics Spectrum in Temperate Trees. <i>Frontiers in Plant Science</i> , 2017, 8, 315.	3.6	90
15	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , 2021, 30, 25-37.	5.8	90
16	The rhizosphere and hyphosphere differ in their impacts on carbon and nitrogen cycling in forests exposed to elevated CO <sub>2</sub> . <i>New Phytologist</i> , 2015, 205, 1164-1174.	7.3	84
17	The mycorrhizal type governs root exudation and nitrogen uptake of temperate tree species. <i>Tree Physiology</i> , 2018, 38, 83-95.	3.1	84
18	Root exudation of mature beech forests across a nutrient availability gradient: the role of root morphology and fungal activity. <i>New Phytologist</i> , 2020, 226, 583-594.	7.3	84

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19	Root exudation patterns in a beech forest: Dependence on soil depth, root morphology, and environment. <i>Soil Biology and Biochemistry</i> , 2017, 107, 188-197.	8.8	83
20	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). <i>Methods in Ecology and Evolution</i> , 2020, 11, 22-37.	5.2	68
21	Ectomycorrhizal fungal diversity increases phosphorus uptake efficiency of European beech. <i>New Phytologist</i> , 2018, 220, 1200-1210.	7.3	66
22	Root traits explain plant species distributions along climatic gradients yet challenge the nature of ecological trade-offs. <i>Nature Ecology and Evolution</i> , 2021, 5, 1123-1134.	7.8	62
23	Fungal communities influence root exudation rates in pine seedlings. <i>FEMS Microbiology Ecology</i> , 2013, 83, 585-595.	2.7	60
24	Recent Climate Warming-Related Growth Decline Impairs European Beech in the Center of Its Distribution Range. <i>Ecosystems</i> , 2017, 20, 1494-1511.	3.4	55
25	The ecology of Central European tree species: Trait spectra, functional trade-offs, and ecological classification of adult trees. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 33, 89-103.	2.7	52
26	Does reduced precipitation trigger physiological and morphological drought adaptations in European beech ( <i>Fagus sylvatica</i> )? Comparing provenances across a precipitation gradient. <i>Tree Physiology</i> , 2015, 35, 949-963.	3.1	51
27	Growing Research Networks on Mycorrhizae for Mutual Benefits. <i>Trends in Plant Science</i> , 2018, 23, 975-984.	8.8	51
28	Nutrient return with leaf litter fall in <i>Fagus sylvatica</i> forests across a soil fertility gradient. <i>Plant Ecology</i> , 2005, 177, 99-112.	1.6	45
29	Intra-specific variations in expression of stress-related genes in beech progenies are stronger than drought-induced responses. <i>Tree Physiology</i> , 2014, 34, 1348-1361.	3.1	40
30	Increased root oxygen uptake in pea plants responding to non-self neighbors. <i>Planta</i> , 2013, 238, 577-586.	3.2	34
31	The Deep Root System of <i>Fagus sylvatica</i> on Sandy Soil: Structure and Variation Across a Precipitation Gradient. <i>Ecosystems</i> , 2018, 21, 280-296.	3.4	27
32	Belowground Biodiversity Relates Positively to Ecosystem Services of European Forests. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	2.3	24
33	Nutrient dynamics along a precipitation gradient in European beech forests. <i>Biogeochemistry</i> , 2014, 120, 51-69.	3.5	23
34	The effect of drought and season on root life span in temperate arbuscular mycorrhizal and ectomycorrhizal tree species. <i>Journal of Ecology</i> , 2019, 107, 2226-2239.	4.0	23
35	Relationship between species diversity, biomass and light transmittance in temperate semi-natural grasslands: is productivity enhanced by complementary light capture?. <i>Journal of Vegetation Science</i> , 2016, 27, 144-155.	2.2	18
36	Species-specific effects of temperate trees on greenhouse gas exchange of forest soil are diminished by drought. <i>Soil Biology and Biochemistry</i> , 2016, 95, 122-134.	8.8	13

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37	The Phosphorus Economy of Mediterranean Oak Saplings Under Global Change. <i>Frontiers in Plant Science</i> , 2019, 10, 405.	3.6	8
38	Editorial: Woody Plants and Forest Ecosystems in a Complex World—Ecological Interactions and Physiological Functioning Above and Below Ground. <i>Frontiers in Plant Science</i> , 2020, 11, 173.	3.6	7
39	Representing root physiological traits in the root economic space framework. <i>New Phytologist</i> , 2022, 234, 773-775.	7.3	7
40	Rhizosphere “Trade” Is an Unnecessary Analogy: Response to No $\text{N}$ . <i>Trends in Ecology and Evolution</i> , 2021, 36, 176-177.	8.7	4
41	An Intact Soil Core Bioassay for Cultivating Forest Ectomycorrhizal Fungal Communities. , 2017, , 173-190.		1
42	Drought Deteriorates the N Stoichiometry of Biomass Production in European Beech Saplings Under Global Change. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	1