Christoph Leuschner

List of Publications by Citations

283 papers	10,377 citations	56 h-index	86 g-index
290 ext. papers	12,208 ext. citations	4.1 avg, IF	6.71 L-index

#	Paper	IF	Citations
283	Tradeoffs between income, biodiversity, and ecosystem functioning during tropical rainforest conversion and agroforestry intensification. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 4973-8	11.5	328
282	Tree Diversity, Forest Structure and Productivity along Altitudinal and Topographical Gradients in a Species-Rich Ecuadorian Montane Rain Forest. *Biotropica*, **2010**, 42, 140-148	2.3	196
281	Large altitudinal increase in tree root/shoot ratio in tropical mountain forests of Ecuador. *Basic and Applied Ecology*, **2007**, 8, 219-230	3.2	183
280	Root competition between beech and oak: a hypothesis. *Oecologia*, **2001**, 126, 276-284	2.9	182
279	Stand fine root biomass and fine root morphology in old-growth beech forests as a function of precipitation and soil fertility. *Plant and Soil*, **2004**, 258, 43-56	4.2	160
278	Belowground drought response of European beech: fine root biomass and carbon partitioning in 14 mature stands across a precipitation gradient. *Global Change Biology*, **2008**, 14, 2081-2095	11.4	153
277	Fifty years of change in Central European grassland vegetation: Large losses in species richness and animal-pollinated plants. *Biological Conservation*, **2012**, 150, 76-85	6.2	143
276	Ecological and socio-economic functions across tropical land use systems after rainforest conversion. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	143
275	Harnessing the biodiversity value of Central and Eastern European farmland. *Diversity and Distributions*, **2015**, 21, 722-730	5	130
274	Elevation effects on the carbon budget of tropical mountain forests (S Ecuador): the role of the belowground compartment. *Global Change Biology*, **2011**, 17, 2211-2226	11.4	127
273	A comparison of four different fine root production estimates with ecosystem carbon balance data in a Fagus□Quercus mixed forest. *Plant and Soil*, **2002**, 239, 237-251	4.2	127
272	Acidity, nutrient stocks, and organic-matter content in soils of a temperate deciduous forest with different abundance of European beech (Fagus sylvatica L.). *Journal of Plant Nutrition and Soil Science*, **2009**, 172, 500-511	2.3	125
271	Ecology of Central European Forests **2017**,		121
270	Biomass and morphology of fine roots in temperate broad-leaved forests differing in tree species diversity: is there evidence of below-ground overyielding?. *Oecologia*, **2009**, 161, 99-111	2.9	116
269	How adaptable is the hydraulic system of European beech in the face of climate change-related precipitation reduction?. *New Phytologist*, **2016**, 210, 443-58	9.8	115
268	Fine root biomass and dynamics in beech forests across a precipitation gradient □is optimal resource partitioning theory applicable to water-limited mature trees?. *Journal of Ecology*, **2013**, 101, 1183-1200	6	114
267	Altitudinal Change in LAI and Stand Leaf Biomass in Tropical Montane Forests: a Transect Study in Ecuador and a Pan-Tropical Meta-Analysis. *Ecosystems*, **2007**, 10, 924-935	3.9	114

266	Nutrient release from decomposing leaf litter of temperate deciduous forest trees along a gradient of increasing tree species diversity. *Soil Biology and Biochemistry*, **2009**, 41, 2122-2130	7.5	112
265	Genotypic variation and phenotypic plasticity in the drought response of fine roots of European beech. *Tree Physiology*, **2008**, 28, 297-309	4.2	111
264	Soil organic carbon stocks in topsoil and subsoil controlled by parent material, carbon input in the rhizosphere, and microbial-derived compounds. *Soil Biology and Biochemistry*, **2018**, 122, 19-30	7.5	109
263	Quantifying above- and belowground biomass carbon loss with forest conversion in tropical lowlands of Sumatra (Indonesia). *Global Change Biology*, **2015**, 21, 3620-34	11.4	109
262	Global warming-related tree growth decline and mortality on the north-eastern Tibetan plateau. *Climatic Change*, **2016**, 134, 163-176	4.5	106
261	Are marginal beech (Fagus sylvatica L.) provenances a source for drought tolerant ecotypes?. *European Journal of Forest Research*, **2009**, 128, 335-343	2.7	106
260	Rainfall partitioning in relation to forest structure in differently managed montane forest stands in Central Sulawesi, Indonesia. *Forest Ecology and Management*, **2006**, 237, 170-178	3.9	106
259	Above- and below-ground litter production in three tropical montane forests in southern Ecuador. *Journal of Tropical Ecology*, **2005**, 21, 483-492	1.3	106
258	The Kobresia pygmaea ecosystem of the Tibetan highlands - Origin, functioning and degradation of the world's largest pastoral alpine ecosystem: Kobresia pastures of Tibet. *Science of the Total Environment*, **2019**, 648, 754-771	10.2	104
257	On the niche breadth ofFagus sylvatica: soil nutrient status in 50 Central European beech stands on a broad range of bedrock types. *Annals of Forest Science*, **2006**, 63, 355-368	3.1	104
256	Deforestation and Forest Fragmentation in South Ecuador since the 1970s - Losing a Hotspot of Biodiversity. *PLoS ONE*, **2015**, 10, e0133701	3.7	103
255	Functional role of forest diversity: Pros and cons of synthetic stands and across-site comparisons in established forests. *Basic and Applied Ecology*, **2009**, 10, 1-9	3.2	101
254	Climate Warming-Related Growth Decline Affects Fagus sylvatica, But Not Other Broad-Leaved Tree Species in Central European Mixed Forests. *Ecosystems*, **2015**, 18, 560-572	3.9	100
253	Leaf water status and stem xylem flux in relation to soil drought in five temperate broad-leaved tree species with contrasting water use strategies. *Annals of Forest Science*, **2009**, 66, 101-101	3.1	100
252	Leaf Size and Leaf Area Index in Fagus sylvatica Forests: Competing Effects of Precipitation, Temperature, and Nitrogen Availability. *Ecosystems*, **2008**, 11, 655-669	3.9	94
251	Dramatic losses of specialist arable plants in Central Germany since the 1950s/60s — a cross-regional analysis. *Diversity and Distributions*, **2013**, 19, 1175-1187	5	91
250	Forest aboveground biomass along an elevational transect in Sulawesi, Indonesia, and the role of Fagaceae in tropical montane rain forests. *Journal of Biogeography*, **2010**, 37, 960-974	4.1	91
249	Effects of experimental drought on the fine root system of mature Norway spruce. *Forest Ecology and Management*, **2008**, 256, 1151-1159	3.9	90

248	Productivity of temperate broad-leaved forest stands differing in tree species diversity. *Annals of Forest Science*, **2010**, 67, 503-503	3.1	88
247	ARE HIGH ELEVATIONS IN TROPICAL MOUNTAINS ARID ENVIRONMENTS FOR PLANTS?. *Ecology*, **2000**, 81, 1425-1436	4.6	81
246	Fine Root Biomass of Temperate Forests in Relation to Soil Acidity and Fertility, Climate, Age and Species. *Progress in Botany Fortschritte Der Botanik*, **2003**, 405-438	0.6	79
245	Variation of soil and biomass carbon pools in beech forests across a precipitation gradient. *Global Change Biology*, **2010**, 16, 1035-1045	11.4	78
244	Spatial and temporal patterns of fine root abundance in a mixed oak-beech forest. *Forest Ecology and Management*, **1994**, 70, 11-21	3.9	78
243	Belowground competition in a broad-leaved temperate mixed forest: pattern analysis and experiments in a four-species stand. *European Journal of Forest Research*, **2009**, 128, 387-398	2.7	74
242	Growth of European beech (Fagus sylvatica L.) saplings is limited by elevated atmospheric vapour pressure deficits. *Forest Ecology and Management*, **2008**, 256, 648-655	3.9	73
241	Diverging climate trends in Mongolian taiga forests influence growth and regeneration of Larix sibirica. *Oecologia*, **2010**, 163, 1091-102	2.9	71
240	Crown plasticity in mixed forestsQuantifying asymmetry as a measure of competition using terrestrial laser scanning. *Forest Ecology and Management*, **2011**, 261, 2123-2132	3.9	70
239	No evidence of spatial root system segregation and elevated fine root biomass in multi-species temperate broad-leaved forests. *Trees - Structure and Function*, **2009**, 23, 941-950	2.6	70
238	Effects of experimental soil frost on the fine-root system of mature Norway spruce. *Journal of Plant Nutrition and Soil Science*, **2008**, 171, 690-698	2.3	70
237	Habitat loss of floodplain meadows in north Germany since the 1950s. *Biodiversity and Conservation* , **2011**, 20, 2347-2364	3.4	66
236	Effects of an experimental drought on the functioning of a cacao agroforestry system, Sulawesi, Indonesia. *Global Change Biology*, **2010**, 16, 1515-1530	11.4	66
235	Environmental control of daily stem growth patterns in five temperate broad-leaved tree species. *Tree Physiology*, **2012**, 32, 1021-32	4.2	66
234	Effects of tree identity dominate over tree diversity on the soil microbial community structure. *Soil Biology and Biochemistry*, **2015**, 81, 219-227	7.5	63
233	Limitation of carbon assimilation of intertidal Zostera noltii and Z. marina by desiccation at low tide. *Aquatic Botany*, **1998**, 62, 171-176	1.8	62
232	Dissociation and metal-binding characteristics of yellow lichen substances suggest a relationship with site preferences of lichens. *Annals of Botany*, **2009**, 103, 13-22	4.1	60
231	Conversion of a tropical forest into agroforest alters the fine root-related carbon flux to the soil. *Soil Biology and Biochemistry*, **2009**, 41, 481-490	7.5	60

230	Genotypic variation in drought response of silver birch (Betula pendula Roth): leaf and root morphology and carbon partitioning. *Trees - Structure and Function*, **2006**, 20, 42-52	2.6	60
229	European beech responds to climate change with growth decline at lower, and growth increase at higher elevations in the center of its distribution range (SW Germany). *Trees - Structure and Function*, **2017**, 31, 673-686	2.6	58
228	Consistent patterns of elevational change in tree taxonomic and phylogenetic diversity across Malesian mountain forests. *Journal of Biogeography*, **2013**, 40, 1997-2010	4.1	56
227	The significance of deadwood for total bryophyte, lichen, and vascular plant diversity in an old-growth spruce forest. *Plant Ecology*, **2014**, 215, 1123-1137	1.7	55
226	Increased Summer Temperatures Reduce the Growth and Regeneration of Larix sibirica in Southern Boreal Forests of Eastern Kazakhstan. *Ecosystems*, **2013**, 16, 1536-1549	3.9	54
225	Environment and tree size controlling stem sap flux in a perhumid tropical forest of Central Sulawesi, Indonesia. *Annals of Forest Science*, **2011**, 68, 1027-1038	3.1	54
224	Root exudation patterns in a beech forest: Dependence on soil depth, root morphology, and environment. *Soil Biology and Biochemistry*, **2017**, 107, 188-197	7.5	53
223	The relationship between tree species richness, canopy space exploration and productivity in a temperate broad-leaf mixed forest. *Forest Ecology and Management*, **2013**, 310, 366-374	3.9	53
222	Dramatic diversity losses in epiphytic lichens in temperate broad-leaved forests during the last 150years. *Biological Conservation*, **2013**, 157, 136-145	6.2	53
221	Variation in leaf area index and stand leaf mass of European beech across gradients of soil acidity and precipitation. *Plant Ecology*, **2006**, 186, 247-258	1.7	53
220	The importance of hydraulic conductivity and wood density to growth performance in eight tree species from a tropical semi-dry climate. *Forest Ecology and Management*, **2014**, 330, 126-136	3.9	52
219	Review of ground-based methods to measure the distribution of biomass in forest canopies. *Annals of Forest Science*, **2011**, 68, 225-244	3.1	52
218	Calibration and comparison of thermal dissipation, heat ratio and heat field deformation sap flow probes for diffuse-porous trees. *Agricultural and Forest Meteorology*, **2017**, 244-245, 151-161	5.8	51
217	Effects of soil chemistry on tropical forest biomass and productivity at different elevations in the equatorial Andes. *Oecologia*, **2012**, 170, 263-74	2.9	51
216	Root Growth and Recovery in Temperate Broad-Leaved Forest Stands Differing in Tree Species Diversity. *Ecosystems*, **2009**, 12, 1103-1116	3.9	51
215	Trade-offs between xylem hydraulic properties, wood anatomy and yield in Populus. *Tree Physiology*, **2014**, 34, 744-56	4.2	49
214	Response of tree-ring width to climate warming and selective logging in larch forests of the Mongolian Altai. *Journal of Plant Ecology*, **2014**, 7, 24-38	1.7	48
213	Roots from beech (Fagus sylvatica L.) and ash (Fraxinus excelsior L.) differentially affect soil microorganisms and carbon dynamics. *Soil Biology and Biochemistry*, **2013**, 61, 23-32	7.5	48

212	Size and Structure of Fine Root Systems in Old-growth and Secondary Tropical Montane Forests (Costa Rica). *Biotropica*, **2003**, 35, 143-153	2.3	48
211	Air humidity as an ecological factor for woodland herbs: leaf water status, nutrient uptake, leaf anatomy, and productivity of eight species grown at low or high vpd levels. *Flora: Morphology, Distribution, Functional Ecology of Plants*, **2002**, 197, 262-274	1.9	48
210	Mechanical abrasion, and not competition for light, is the dominant canopy interaction in a temperate mixed forest. *Forest Ecology and Management*, **2015**, 348, 108-116	3.9	46
209	Conversion of tropical lowland forest reduces nutrient return through litterfall, and alters nutrient use efficiency and seasonality of net primary production. *Oecologia*, **2016**, 180, 601-18	2.9	46
208	Estimating fine root longevity in a temperate Norway spruce forest using three independent methods. *Functional Plant Biology*, **2009**, 36, 11-19	2.7	46
207	Climate Responses of Aboveground Productivity and Allocation in Fagus sylvatica: A Transect Study in Mature Forests. *Ecosystems*, **2013**, 16, 1498-1516	3.9	45
206	CO2 gas exchange of two intertidal seagrass species, Zostera marina L. and Zostera noltii Hornem., during emersion. *Aquatic Botany*, **1993**, 45, 53-62	1.8	45
205	European beech grows better and is less drought sensitive in mixed than in pure stands: tree neighbourhood effects on radial increment. *Trees - Structure and Function*, **2014**, 28, 777-792	2.6	44
204	Lichen substances prevent lichens from nutrient deficiency. *Journal of Chemical Ecology*, **2009**, 35, 71-3	2.7	44
203	Variability of indices of macronutrient availability in soils at different spatial scales along an elevation transect in tropical moist forests (NE Ecuador). *Plant and Soil*, **2010**, 336, 443-458	4.2	43
202	Fine root dynamics along a 2,000-m elevation transect in South Ecuadorian mountain rainforests. *Plant and Soil*, **2008**, 313, 155-166	4.2	42
201	On the significance of belowground overyielding in temperate mixed forests: separating species identity and species diversity effects. *Oikos*, **2013**, 122, 463-473	4	40
200	3D-laser scanning: A non-destructive method for studying above- ground biomass and growth of juvenile trees. *Agricultural and Forest Meteorology*, **2011**, 151, 1305-1311	5.8	40
199	The role of plant resources in forest succession: changes in radiation, water and nutrient fluxes, and plant productivity over a 300-yr-long chronosequence in NW-Germany. *Perspectives in Plant Ecology, Evolution and Systematics*, **1999**, 2, 103-147	3	40
198	Factors controlling the variability of organic matter in the top- and subsoil of a sandy Dystric Cambisol under beech forest. *Geoderma*, **2018**, 311, 37-44	6.7	39
197	Opposing effects of nitrogen versus phosphorus additions on mycorrhizal fungal abundance along an elevational gradient in tropical montane forests. *Soil Biology and Biochemistry*, **2016**, 94, 37-47	7.5	39
196	Replicated throughfall exclusion experiment in an Indonesian perhumid rainforest: wood production, litter fall and fine root growth under simulated drought. *Global Change Biology*, **2014**, 20, 1481-97	11.4	39
195	Diversity loss in the macrophyte vegetation of northwest German streams and rivers between the 1950s and 2010. *Hydrobiologia*, **2013**, 713, 1-17	2.4	39

194	Estimating Fine Root Turnover in Tropical Forests along an Elevational Transect using Minirhizotrons. *Biotropica*, **2008**, 40, 536-542	2.3	39
193	Cacao Cultivation under Diverse Shade Tree Cover Allows High Carbon Storage and Sequestration without Yield Losses. *PLoS ONE*, **2016**, 11, e0149949	3.7	39
192	Climate response of tree-ring width in Larix sibirica growing in the drought-stressed forest-steppe ecotone of northern Mongolia. *Annals of Forest Science*, **2011**, 68, 275-282	3.1	38
191	The different strategies of Pinus sylvestris and Larix sibirica to deal with summer drought in a northern Mongolian forest□steppe ecotone suggest a future superiority of pine in a warming climate. *Canadian Journal of Forest Research*, **2009**, 39, 2520-2528	1.9	38
190	Size and Structure of Fine Root Systems in Old-growth and Secondary Tropical Montane Forests (Costa Rica)1. *Biotropica*, **2003**, 35, 143	2.3	38
189	Air humidity, soil moisture and soil chemistry as determinants of the herb layer composition in European beech forests. *Journal of Vegetation Science*, **2009**, 20, 288-298	3.1	37
188	Does reduced precipitation trigger physiological and morphological drought adaptations in European beech (Fagus sylvatica L.)? Comparing provenances across a precipitation gradient. *Tree Physiology*, **2015**, 35, 949-63	4.2	36
187	Structure and composition of the seed bank in monospecific and tree species-rich temperate broad-leaved forests. *Forest Ecology and Management*, **2009**, 257, 695-702	3.9	36
186	Recent Climate Warming-Related Growth Decline Impairs European Beech in the Center of Its Distribution Range. *Ecosystems*, **2017**, 20, 1494-1511	3.9	35
185	Intraspecific variation in root and leaf traits and leaf-root trait linkages in eight aspen demes (Populus tremula and P. tremuloides). *Frontiers in Plant Science*, **2013**, 4, 415	6.2	35
184	The relationships between abundance, range size and niche breadth in Central European tree species. *Journal of Biogeography*, **2009**, 36, 854-864	4.1	35
183	Assessing future suitability of tree species under climate change by multiple methods: a case study in southern Germany. *Annals of Forest Research*, **2014**, 60,	2.4	35
182	Intra-specific variations in expression of stress-related genes in beech progenies are stronger than drought-induced responses. *Tree Physiology*, **2014**, 34, 1348-61	4.2	34
181	Regional variation in canopy transpiration of Central European beech forests. *Oecologia*, **2005**, 143, 260-70	2.9	34
180	Effects of coppicing in temperate deciduous forests on ecosystem nutrient pools and soil fertility. *Basic and Applied Ecology*, **2001**, 2, 155-164	3.2	34
179	Forty years of vegetation change in former coppice-with-standards woodlands as a result of management change and N deposition. *Applied Vegetation Science*, **2017**, 20, 304-313	3.3	33
178	Root-induced tree species effects on the source/sink strength for greenhouse gases (CH4, N2O and CO2) of a temperate deciduous forest soil. *Soil Biology and Biochemistry*, **2013**, 57, 587-597	7.5	33
177	Factors controlling the abundance of lianas along an altitudinal transect of tropical forests in Ecuador. *Forest Ecology and Management*, **2010**, 259, 1399-1405	3.9	33

176	The ecology of Central European tree species: Trait spectra, functional trade-offs, and ecological classification of adult trees. *Perspectives in Plant Ecology, Evolution and Systematics*, **2018**, 33, 89-103	3	33
175	Climatic Drivers of Mast Fruiting in European Beech and Resulting C and N Allocation Shifts. *Ecosystems*, **2015**, 18, 1083-1100	3.9	30
174	Performance of Siberian elm (Ulmus pumila) on steppe slopes of the northern Mongolian mountain taiga: Drought stress and herbivory in mature trees. *Environmental and Experimental Botany*, **2009**, 66, 18-24	5.9	30
173	Recent drought stress leads to growth reductions in Larix sibirica in the western Khentey, Mongolia. *Global Change Biology*, **2009**, 16, no-no	11.4	30
172	Competition effects on fine root survival of Fagus sylvatica and Fraxinus excelsior. *Forest Ecology and Management*, **2013**, 302, 14-22	3.9	29
171	Soil C and nutrient stores under Scots pine afforestations compared to ancient beech forests in the German Pleistocene: The role of tree species and forest history. *Forest Ecology and Management*, **2013**, 310, 405-415	3.9	29
170	Conversion of tropical moist forest into cacao agroforest: consequences for carbon pools and annual C sequestration. *Agroforestry Systems*, **2013**, 87, 1173-1187	2	29
169	Evapotranspiration and water balance of high-elevation grassland on the Tibetan Plateau. *Journal of Hydrology*, **2016**, 533, 557-566	6	28
168	In situ measurement of fine root water absorption in three temperate tree species□temporal variability and control by soil and atmospheric factors. *Basic and Applied Ecology*, **2005**, 6, 395-405	3.2	28
167	Significance of Over-Mature and Decaying Trees for Carbon Stocks in a Central European Natural Spruce Forest. *Ecosystems*, **2013**, 16, 336-346	3.9	27
166	N, P and K limitation of fine root growth along an elevation transect in tropical mountain forests. *Acta Oecologica*, **2010**, 36, 537-542	1.7	27
165	Patterns of long-term vegetation change vary between different types of semi-natural grasslands in Western and Central Europe. *Journal of Vegetation Science*, **2019**, 30, 187-202	3.1	26
164	Carbon pool densities and a first estimate of the total carbon pool in the Mongolian forest-steppe. *Global Change Biology*, **2016**, 22, 830-44	11.4	26
163	Relationships between macrophyte vegetation and physical and chemical conditions in northwest German running waters. *Aquatic Botany*, **2014**, 113, 46-55	1.8	26
162	Root trait responses of six temperate grassland species to intensive mowing and NPK fertilisation: a field study in a temperate grassland. *Plant and Soil*, **2013**, 373, 687-698	4.2	26
161	Extremely low fine root biomass in Larix sibirica forests at the southern drought limit of the boreal forest. *Flora: Morphology, Distribution, Functional Ecology of Plants*, **2013**, 208, 488-496	1.9	26
160	The inhibiting effect of nitrate fertilisation on methane uptake of a temperate forest soil is influenced by labile carbon. *Biology and Fertility of Soils*, **2012**, 48, 621-631	6.1	26
159	Higher climate warming sensitivity of Siberian larch in small than large forest islands in the fragmented Mongolian forest steppe. *Global Change Biology*, **2017**, 23, 3675-3689	11.4	25

158	Carbon pools of semi-arid Picea crassifolia forests in the Qilian Mountains (north-eastern Tibetan Plateau). *Forest Ecology and Management*, **2015**, 343, 136-143	3.9	25
157	Effects of Inundation, Nutrient Availability and Plant Species Diversity on Fine Root Mass and Morphology Across a Saltmarsh Flooding Gradient. *Frontiers in Plant Science*, **2018**, 9, 98	6.2	25
156	Fine root morphological and functional traits in Fagus sylvatica and Fraxinus excelsior saplings as dependent on species, root order and competition. *Plant and Soil*, **2013**, 373, 143-156	4.2	25
155	Forest Continuity as a Key Determinant of Soil Carbon and Nutrient Storage in Beech Forests on Sandy Soils in Northern Germany. *Ecosystems*, **2014**, 17, 497-511	3.9	25
154	Contrasting responses of seedling and sapling densities to livestock density in the Mongolian forest-steppe. *Plant Ecology*, **2013**, 214, 1391-1403	1.7	25
153	13C signature of tree rings and radial increment of Fagus sylvatica trees as dependent on tree neighborhood and climate. *Trees - Structure and Function*, **2011**, 25, 215-229	2.6	25
152	Drought response of European beech (Fagus sylvatica L.)—A review. *Perspectives in Plant Ecology, Evolution and Systematics*, **2020**, 47, 125576	3	25
151	Do ectomycorrhizal and arbuscular mycorrhizal temperate tree species systematically differ in root order-related fine root morphology and biomass?. *Frontiers in Plant Science*, **2015**, 6, 64	6.2	24
150	Lichen substance concentrations in the lichen Hypogymnia physodes are correlated with heavy metal concentrations in the substratum. *Environmental and Experimental Botany*, **2013**, 85, 58-63	5.9	24
149	Gypsy moth-induced growth decline of Larix sibirica in a forest-steppe ecotone. *Dendrochronologia*, **2010**, 28, 207-213	2.8	24
148	High litterfall in old-growth and secondary upper montane forest of Costa Rica. *Plant Ecology*, **2008** , 199, 163-173	1.7	24
147	Root exudation of mature beech forests across a nutrient availability gradient: the role of root morphology and fungal activity. *New Phytologist*, **2020**, 226, 583-594	9.8	24
146	Higher drought sensitivity of radial growth of European beech in managed than in unmanaged forests. *Science of the Total Environment*, **2018**, 642, 1201-1208	10.2	24
145	Norstictic acid: Correlations between its physico-chemical characteristics and ecological preferences of lichens producing this depsidone. *Environmental and Experimental Botany*, **2010**, 68, 309-313	5.0	23
144	Legacy effects of land-use modulate tree growth responses to climate extremes. *Oecologia*, **2018**, 187, 825-837	2.9	22
143	Diversity and species identity effects on fine root productivity and turnover in a species-rich temperate broad-leaved forest. *Functional Plant Biology*, **2014**, 41, 678-689	2.7	22
142	Nachbarschaftsbezogene Analyse der Kronenraumbesetzung von Esche, Hainbuche und Winterlinde in einem artenreichen Laubmischwald (Nationalpark Hainich, Thüringen). *European Journal of Forest Research*, **2003**, 122, 22-35		22
141	Comparing the plant diversity of paired beech primeval and production forests: Management reduces cryptogam, but not vascular plant species richness. *Forest Ecology and Management*, **2017**, 400, 58-67	3.9	21

140	Detecting long-term losses at the plant community level arable fields in Germany revisited. *Applied Vegetation Science*, **2015**, 18, 432-442	3.3	21
139	Altitudinal Change in the Photosynthetic Capacity of Tropical Trees: A Case Study from Ecuador and a Pantropical Literature Analysis. *Ecosystems*, **2012**, 15, 958-973	3.9	21
138	Comparison of conventional eight-point crown projections with LIDAR-based virtual crown projections in a temperate old-growth forest. *Annals of Forest Science*, **2011**, 68, 1173-1185	3.1	21
137	Consequences of increasing forest use intensity for biomass, morphology and growth of fine roots in a tropical moist forest on Sulawesi, Indonesia. *Agriculture, Ecosystems and Environment*, **2009**, 129, 474-481	5.7	21
136	Species diversity and identity effects on the water consumption of tree sapling assemblages under ample and limited water supply. *Oikos*, **2016**, 125, 86-97	4	21
135	A novel empirical approach for determining the extension of forest development stages in temperate old-growth forests. *European Journal of Forest Research*, **2018**, 137, 321-335	2.7	20
134	Climate effects on inter- and intra-annual larch stemwood anomalies in the Mongolian forest-steppe. *Acta Oecologica*, **2014**, 55, 113-121	1.7	20
133	Hydraulic properties and embolism in small-diameter roots of five temperate broad-leaved tree species with contrasting drought tolerance. *Annals of Forest Science*, **2012**, 69, 693-703	3.1	20
132	The diversityproductivity relationship in a permanent temperate grassland: negative diversity effect, dominant influence of management regime. *Plant Ecology and Diversity*, **2012**, 5, 265-274	2.2	20
131	Does root competition asymmetry increase with water availability?. *Plant Ecology and Diversity*, **2009**, 2, 255-264	2.2	20
130	Patterns of Fine Root Mass and Distribution along a Disturbance Gradient in a Tropical Montane Forest, Central Sulawesi (Indonesia). *Plant and Soil*, **2006**, 283, 163-174	4.2	20
129	In situ measurement of water absorption by fine roots of three temperate trees: species differences and differential activity of superficial and deep roots. *Tree Physiology*, **2004**, 24, 1359-67	4.2	20
128	De novo transcriptome assembly and analysis of differential gene expression in response to drought in European beech. *PLoS ONE*, **2017**, 12, e0184167	3.7	20
127	Fine Root Productivity and Turnover of Ectomycorrhizal and Arbuscular Mycorrhizal Tree Species in a Temperate Broad-Leaved Mixed Forest. *Frontiers in Plant Science*, **2016**, 7, 1233	6.2	20
126	The relation between pressurevolume curve traits and stomatal regulation of water potential in five temperate broadleaf tree species. *Annals of Forest Science*, **2019**, 76, 1	3.1	19
125	The Deep Root System of Fagus sylvatica on Sandy Soil: Structure and Variation Across a Precipitation Gradient. *Ecosystems*, **2018**, 21, 280-296	3.9	19
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