

# Andrea Polle

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

265  
papers

16,474  
citations

70  
h-index

119  
g-index

279  
ext. papers

18,926  
ext. citations

5.7  
avg, IF

6.72  
L-index

#	Paper	IF	Citations
265	Response of Poplar Leaf Transcriptome to Changed Management and Environmental Conditions in Pure and Mixed with Black Locust Stands. <i>Forests</i> , <b>2022</b> , 13, 147	2.8	0
264	Early Effects of Fertilizer and Herbicide Reduction on Root-Associated Biota in Oil Palm Plantations. <i>Agronomy</i> , <b>2022</b> , 12, 199	3.6	0
263	Mycorrhiza-Tree-Herbivore Interactions: Alterations in Poplar Metabolome and Volatilome.. <i>Metabolites</i> , <b>2022</b> , 12,	5.6	2
262	Transcriptional Landscape of Ectomycorrhizal Fungi and Their Host Provides Insight into N Uptake from Forest Soil.. <i>MSystems</i> , <b>2022</b> , e0095721	7.6	2
261	Multi-omics analysis of xylem sap uncovers dynamic modulation of poplar defenses by ammonium and nitrate.. <i>Plant Journal</i> , <b>2022</b> ,	6.9	2
260	Ectomycorrhizal Fungal Strains Facilitate Cd Enrichment in a Woody Hyperaccumulator under Co-Existing Stress of Cadmium and Salt. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
259	Shifts in root and soil chemistry drive the assembly of belowground fungal communities in tropical land-use systems. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 154, 108140	7.5	4
258	An interdisciplinary framework to describe and evaluate the functioning of forest ecosystems. <i>Basic and Applied Ecology</i> , <b>2021</b> , 52, 1-14	3.2	4
257	Volatile organic compound patterns predict fungal trophic mode and lifestyle. <i>Communications Biology</i> , <b>2021</b> , 4, 673	6.7	6
256	Phosphorus Availability Alters the Effect of Tree Girdling on the Diversity of Phosphorus Solubilizing Soil Bacterial Communities in Temperate Beech Forests. <i>Frontiers in Forests and Global Change</i> , <b>2021</b> , 4,	3.7	1
255	Phylogeny, tissue-specific expression, and activities of root-secreted purple acid phosphatases for P uptake from ATP in P starved poplar. <i>Plant Science</i> , <b>2021</b> , 307, 110906	5.3	0
254	The influence of transpiration on foliar accumulation of salt and nutrients under salinity in poplar ( <i>Populus trichocarpa</i> ). <i>PLoS ONE</i> , <b>2021</b> , 16, e0253228	3.7	1
253	Wood properties and transcriptional responses of poplar hybrids in mixed cropping with the nitrogen-fixing species <i>Robinia pseudoacacia</i> . <i>Tree Physiology</i> , <b>2021</b> , 41, 865-881	4.2	2
252	Carbohydrate depletion in roots impedes phosphorus nutrition in young forest trees. <i>New Phytologist</i> , <b>2021</b> , 229, 2611-2624	9.8	9
251	Wood Formation under Severe Drought Invokes Adjustment of the Hormonal and Transcriptional Landscape in Poplar. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
250	Tree species composition and soil properties in pure and mixed beech-conifer stands drive soil fungal communities. <i>Forest Ecology and Management</i> , <b>2021</b> , 502, 119709	3.9	0
249	National Forest Inventories capture the multifunctionality of managed forests in Germany. <i>Forest Ecosystems</i> , <b>2021</b> , 8,	3.8	5

248	Effective Defense of Aleppo Pine Against the Giant Scale Through Ecophysiological and Metabolic Changes. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 581693	6.2	4
247	Hybrid and Environmental Effects on Gene Expression in Poplar Clones in Pure and Mixed with Black Locust Stands. <i>Forests</i> , <b>2020</b> , 11, 1075	2.8	1
246	Legacy Effects Overshadow Tree Diversity Effects on Soil Fungal Communities in Oil Palm-Enrichment Plantations. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	2
245	Soil and root nutrient chemistry structure root-associated fungal assemblages in temperate forests. <i>Environmental Microbiology</i> , <b>2020</b> , 22, 3081-3095	5.2	7
244	Ectomycorrhizal fungi induce systemic resistance against insects on a nonmycorrhizal plant in a CERK1-dependent manner. <i>New Phytologist</i> , <b>2020</b> , 228, 728-740	9.8	16
243	Root isoprene formation alters lateral root development. <i>Plant, Cell and Environment</i> , <b>2020</b> , 43, 2207-2283	4	13
242	Saprotrophic and Ectomycorrhizal Fungi Contribute Differentially to Organic P Mobilization in Beech-Dominated Forest Ecosystems. <i>Frontiers in Forests and Global Change</i> , <b>2020</b> , 3,	3.7	7
241	Mycorrhizal Phosphorus Efficiencies and Microbial Competition Drive Root P Uptake. <i>Frontiers in Forests and Global Change</i> , <b>2020</b> , 3,	3.7	12
240	Trade-offs between multifunctionality and profit in tropical smallholder landscapes. <i>Nature Communications</i> , <b>2020</b> , 11, 1186	17.4	52
239	Early stage root-Associated fungi show a high temporal turnover, but Are independent of beech progeny. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	2
238	Differences in Root Nitrogen Uptake Between Tropical Lowland Rainforests and Oil Palm Plantations. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 92	6.2	4
237	Local Responses and Systemic Induced Resistance Mediated by Ectomycorrhizal Fungi. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 590063	6.2	14
236	What Makes the Wood? Exploring the Molecular Mechanisms of Xylem Acclimation in Hardwoods to an Ever-Changing Environment. <i>Forests</i> , <b>2019</b> , 10, 358	2.8	9
235	Mortality of Different Populus Genotypes in Recently Established Mixed Short Rotation Coppice with Robinia pseudoacacia L.. <i>Forests</i> , <b>2019</b> , 10, 410	2.8	7
234	Abscisic acid signalling mediates biomass trade-off and allocation in poplar. <i>New Phytologist</i> , <b>2019</b> , 223, 1192-1203	9.8	17
233	Intensive tropical land use massively shifts soil fungal communities. <i>Scientific Reports</i> , <b>2019</b> , 9, 3403	4.9	52
232	Protura are unique: first evidence of specialized feeding on ectomycorrhizal fungi in soil invertebrates. <i>BMC Ecology</i> , <b>2019</b> , 19, 10	2.7	15
231	Changes in Trophic Groups of Protists With Conversion of Rainforest Into Rubber and Oil Palm Plantations. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 240	5.7	23

230	Competing Endogenous RNA Networks Underlying Anatomical and Physiological Characteristics of Poplar Wood in Acclimation to Low Nitrogen Availability. <i>Plant and Cell Physiology</i> , <b>2019</b> , 60, 2478-2495	4.9	16
229	Reducing Fertilizer and Avoiding Herbicides in Oil Palm Plantations: Ecological and Economic Valuations. <i>Frontiers in Forests and Global Change</i> , <b>2019</b> , 2,	3.7	34
228	Photooxidative Stress in Trees <b>2019</b> , 199-218		6
227	Amelioration of nitrate uptake under salt stress by ectomycorrhiza with and without a Hartig net. <i>New Phytologist</i> , <b>2019</b> , 222, 1951-1964	9.8	21
226	Leaf litter species identity influences biochemical composition of ectomycorrhizal fungi. <i>Mycorrhiza</i> , <b>2019</b> , 29, 85-96	3.9	5
225	Specialisation and diversity of multiple trophic groups are promoted by different forest features. <i>Ecology Letters</i> , <b>2019</b> , 22, 170-180	10	49
224	Physiological and molecular mechanisms of heavy metal accumulation in nonmycorrhizal versus mycorrhizal plants. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 1087-1103	8.4	56
223	Assembly processes of trophic guilds in the root mycobiome of temperate forests. <i>Molecular Ecology</i> , <b>2019</b> , 28, 348-364	5.7	22
222	Drought effects on the tissue- and cell-specific cytokinin activity in poplar. <i>AoB PLANTS</i> , <b>2018</b> , 10, plx0672.9	7.9	10
221	Mycorrhiza-Triggered Transcriptomic and Metabolomic Networks Impinge on Herbivore Fitness. <i>Plant Physiology</i> , <b>2018</b> , 176, 2639-2656	6.6	43
220	Dynamics of phosphorus nutrition, allocation and growth of young beech ( <i>Fagus sylvatica</i> L.) trees in P-rich and P-poor forest soil. <i>Tree Physiology</i> , <b>2018</b> , 38, 37-51	4.2	28
219	Forest Soil Phosphorus Resources and Fertilization Affect Ectomycorrhizal Community Composition, Beech P Uptake Efficiency, and Photosynthesis. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 463	6.2	26
218	Comparative characterization of ethanol organosolv lignin polymer from bamboo green, timber and yellow. <i>Wood Science and Technology</i> , <b>2018</b> , 52, 1331-1341	2.5	8
217	Engineering Drought Resistance in Forest Trees. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1875	6.2	42
216	Temporal variations of phosphorus uptake by soil microbial biomass and young beech trees in two forest soils with contrasting phosphorus stocks. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 117, 191-202	7.5	38
215	Multiple forest attributes underpin the supply of multiple ecosystem services. <i>Nature Communications</i> , <b>2018</b> , 9, 4839	17.4	99
214	Genes and gene clusters related to genotype and drought-induced variation in saccharification potential, lignin content and wood anatomical traits in <i>Populus nigra</i> . <i>Tree Physiology</i> , <b>2018</b> , 38, 320-339	4.2	24
213	Ectomycorrhizal fungal diversity increases phosphorus uptake efficiency of European beech. <i>New Phytologist</i> , <b>2018</b> , 220, 1200-1210	9.8	33

212	Comparative transcriptomic analysis reveals the roles of overlapping heat-/drought-responsive genes in poplars exposed to high temperature and drought. <i>Scientific Reports</i> , <b>2017</b> , 7, 43215	4.9	53
211	Intraspecific variations in drought response and fitness traits of beech ( <i>Fagus sylvatica</i> L.) seedlings from three provenances differing in annual precipitation. <i>Trees - Structure and Function</i> , <b>2017</b> , 31, 1215-1225	2.6	11
210	Phylogenetic and functional traits of ectomycorrhizal assemblages in top soil from different biogeographic regions and forest types. <i>Mycorrhiza</i> , <b>2017</b> , 27, 233-245	3.9	24
209	Changes in the fine root proteome of <i>Fagus sylvatica</i> L. trees associated with P-deficiency and amelioration of P-deficiency. <i>Journal of Proteomics</i> , <b>2017</b> , 169, 33-40	3.9	6
208	Impact of ectomycorrhizal community composition and soil treatment on inorganic nitrogen nutrition and performance of beech ( <i>Fagus sylvatica</i> L.) provenances. <i>Trees - Structure and Function</i> , <b>2017</b> , 31, 1891-1904	2.6	3
207	Soil phosphorus supply controls P nutrition strategies of beech forest ecosystems in Central Europe. <i>Biogeochemistry</i> , <b>2017</b> , 136, 5-29	3.8	111
206	Beech trees fuel soil animal food webs via root-derived nitrogen. <i>Basic and Applied Ecology</i> , <b>2017</b> , 22, 28-35	3.2	9
205	Mistletoe infestation mediates alteration of the phytohormone profile and anti-oxidative metabolism in bark and wood of its host <i>Pinus sylvestris</i> . <i>Tree Physiology</i> , <b>2017</b> , 37, 676-691	4.2	15
204	Dissecting nutrient-related co-expression networks in phosphate starved poplars. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171958	3.7	13
203	Root-derived carbon and nitrogen from beech and ash trees differentially fuel soil animal food webs of deciduous forests. <i>PLoS ONE</i> , <b>2017</b> , 12, e0189502	3.7	13
202	Belowground communication: impacts of volatile organic compounds (VOCs) from soil fungi on other soil-inhabiting organisms. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 8651-65	5.7	68
201	Heavy metal accumulation and signal transduction in herbaceous and woody plants: Paving the way for enhancing phytoremediation efficiency. <i>Biotechnology Advances</i> , <b>2016</b> , 34, 1131-1148	17.8	185
200	Segregation of nitrogen use between ammonium and nitrate of ectomycorrhizas and beech trees. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 2691-2700	8.4	22
199	Divergent habitat filtering of root and soil fungal communities in temperate beech forests. <i>Scientific Reports</i> , <b>2016</b> , 6, 31439	4.9	59
198	Biomass traits and candidate genes for bioenergy revealed through association genetics in coppiced European <i>Populus nigra</i> (L.). <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 195	7.8	24
197	Acid and calcareous soils affect nitrogen nutrition and organic nitrogen uptake by beech seedlings ( <i>Fagus sylvatica</i> L.) under drought, and their ectomycorrhizal community structure. <i>Plant and Soil</i> , <b>2016</b> , 409, 143-157	4.2	15
196	Changes in culm surface temperature with maturity of the bamboo species <i>Guadua angustifolia</i> . <i>Journal of Forestry Research</i> , <b>2016</b> , 27, 419-425	2	
195	Phosphorus and nitrogen physiology of two contrasting poplar genotypes when exposed to phosphorus and/or nitrogen starvation. <i>Tree Physiology</i> , <b>2016</b> , 36, 22-38	4.2	78

194	-Facilitated Cd Influx through Plasma Membrane Ca-Permeable Channels Is Stimulated by HO and H-ATPase in Ectomycorrhizal Under Cadmium Stress. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1975	6.2	11
193	Climate Change Impairs Nitrogen Cycling in European Beech Forests. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158823	3.7	32
192	Tissue- and Cell-Specific Cytokinin Activity in <i>Populus trichocarpa</i> Monitored by ARR5::GUS Reporter Lines in Summer and Winter. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 652	6.2	8
191	Phosphorus in forest ecosystems: New insights from an ecosystem nutrition perspective. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2016</b> , 179, 129-135	2.3	115
190	Phenology, photosynthesis, and phosphorus in European beech ( <i>Fagus sylvatica</i> L.) in two forest soils with contrasting P contents. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2016</b> , 179, 151-158	2.3	33
189	Physiological and transcriptional regulation in poplar roots and leaves during acclimation to high temperature and drought. <i>Physiologia Plantarum</i> , <b>2016</b> , 157, 38-53	4.6	19
188	Phosphorus availabilities in beech ( <i>Fagus sylvatica</i> L.) forests impose habitat filtering on ectomycorrhizal communities and impact tree nutrition. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 98, 127-137	7.5	41
187	Phosphate uptake kinetics and tissue-specific transporter expression profiles in poplar ( <i>Populus trichocarpa</i> ) at different phosphorus availabilities. <i>BMC Plant Biology</i> , <b>2016</b> , 16, 206	5.3	29
186	Overexpression of bacterial $\gamma$ -glutamylcysteine synthetase mediates changes in cadmium influx, allocation and detoxification in poplar. <i>New Phytologist</i> , <b>2015</b> , 205, 240-54	9.8	168
185	High rates of virus-induced gene silencing by tobacco rattle virus in <i>Populus</i> . <i>Tree Physiology</i> , <b>2015</b> , 35, 1016-29	4.2	22
184	Ectomycorrhizal Communities on the Roots of Two Beech ( <i>Fagus sylvatica</i> ) Populations from Contrasting Climates Differ in Nitrogen Acquisition in a Common Environment. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 5957-67	4.8	15
183	Impacts of earthworms on nitrogen acquisition from leaf litter by arbuscular mycorrhizal ash and ectomycorrhizal beech trees. <i>Environmental and Experimental Botany</i> , <b>2015</b> , 120, 1-7	5.9	9
182	Effects of Elevated Atmospheric CO <sub>2</sub> on Microbial Community Structure at the Plant-Soil Interface of Young Beech Trees ( <i>Fagus sylvatica</i> L.) Grown at Two Sites with Contrasting Climatic Conditions. <i>Microbial Ecology</i> , <b>2015</b> , 69, 867-78	4.4	17
181	Volatile signalling by sesquiterpenes from ectomycorrhizal fungi reprogrammes root architecture. <i>Nature Communications</i> , <b>2015</b> , 6, 6279	17.4	143
180	Global poplar root and leaf transcriptomes reveal links between growth and stress responses under nitrogen starvation and excess. <i>Tree Physiology</i> , <b>2015</b> , 35, 1283-302	4.2	93
179	Isoprene emission by poplar is not important for the feeding behaviour of poplar leaf beetles. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 165	5.3	17
178	On the salty side of life: molecular, physiological and anatomical adaptation and acclimation of trees to extreme habitats. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 1794-816	8.4	71
177	Exogenous abscisic acid alleviates zinc uptake and accumulation in <i>Populus trichocarpa</i> exposed to excess zinc. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 207-23	8.4	86

176	Water consumption and biomass production of protoplast fusion lines of poplar hybrids under drought stress. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 330	6.2	22
175	Auxin is a long-range signal that acts independently of ethylene signaling on leaf abscission in <i>Populus</i> . <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 634	6.2	30
174	What the transcriptome does not tell - proteomics and metabolomics are closer to the plantsR patho-phenotype. <i>Current Opinion in Plant Biology</i> , <b>2015</b> , 26, 26-31	9.9	76
173	Degradation of Root Community Traits as Indicator for Transformation of Tropical Lowland Rain Forests into Oil Palm and Rubber Plantations. <i>PLoS ONE</i> , <b>2015</b> , 10, e0138077	3.7	25
172	Genetic diversity in aspen and its relation to arthropod abundance. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 806	6.2	8
171	Carbon and nitrogen fluxes between beech and their ectomycorrhizal assemblage. <i>Mycorrhiza</i> , <b>2014</b> , 24, 645-50	3.9	22
170	Poplar nutrition under drought as affected by ectomycorrhizal colonization. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 108, 89-98	5.9	25
169	The role of ectomycorrhizas in heavy metal stress tolerance of host plants. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 108, 47-62	5.9	91
168	Class I KNOX transcription factors promote differentiation of cambial derivatives into xylem fibers in the <i>Arabidopsis</i> hypocotyl. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 4311-9	6.6	64
167	Anatomical, physiological and transcriptional responses of two contrasting poplar genotypes to drought and re-watering. <i>Physiologia Plantarum</i> , <b>2014</b> , 151, 480-94	4.6	52
166	Salt tolerance in <i>Populus</i> : Significance of stress signaling networks, mycorrhization, and soil amendments for cellular and whole-plant nutrition. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 107, 113-124	5.9	52
165	Soluble phenylpropanoids are involved in the defense response of <i>Arabidopsis</i> against <i>Verticillium longisporum</i> . <i>New Phytologist</i> , <b>2014</b> , 202, 823-837	9.8	83
164	Temperature-induced lipocalin (TIL) is translocated under salt stress and protects chloroplasts from ion toxicity. <i>Journal of Plant Physiology</i> , <b>2014</b> , 171, 250-9	3.6	28
163	Ion fluxes in <i>Paxillus involutus</i> -inoculated roots of <i>Populus alba</i> under saline stress. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 108, 99-108	5.9	15
162	Intra-specific variations in expression of stress-related genes in beech progenies are stronger than drought-induced responses. <i>Tree Physiology</i> , <b>2014</b> , 34, 1348-61	4.2	34
161	Ectomycorrhizal identification in environmental samples of tree roots by Fourier-transform infrared (FTIR) spectroscopy. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 229	6.2	14
160	Quantitative X-ray Elemental Imaging in Plant Materials at the Subcellular Level with a Transmission Electron Microscope: Applications and Limitations. <i>Materials</i> , <b>2014</b> , 7, 3160-3175	3.5	7
159	Nitrogen-driven stem elongation in poplar is linked with wood modification and gene clusters for stress, photosynthesis and cell wall formation. <i>BMC Plant Biology</i> , <b>2014</b> , 14, 391	5.3	32

158	Ectomycorrhizas with <i>Paxillus involutus</i> enhance cadmium uptake and tolerance in <i>Populus trichocarpa</i> . <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 627-42	8.4	93
157	Attributing functions to ectomycorrhizal fungal identities in assemblages for nitrogen acquisition under stress. <i>ISME Journal</i> , <b>2014</b> , 8, 321-30	11.9	64
156	Determinants of Acidobacteria activity inferred from the relative abundances of 16S rRNA transcripts in German grassland and forest soils. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 658-75	5.2	70
155	Subcellular nutrient element localization and enrichment in ecto- and arbuscular mycorrhizas of field-grown beech and ash trees indicate functional differences. <i>PLoS ONE</i> , <b>2014</b> , 9, e114672	3.7	18
154	Minor contribution of leaf litter to N nutrition of beech ( <i>Fagus sylvatica</i> ) seedlings in a mountainous beech forest of Southern Germany. <i>Plant and Soil</i> , <b>2013</b> , 369, 657-668	4.2	22
153	Preferential use of root litter compared to leaf litter by beech seedlings and soil microorganisms. <i>Plant and Soil</i> , <b>2013</b> , 368, 519-534	4.2	19
152	Interspecific temporal and spatial differences in the acquisition of litter-derived nitrogen by ectomycorrhizal fungal assemblages. <i>New Phytologist</i> , <b>2013</b> , 199, 520-528	9.8	40
151	Net fluxes of ammonium and nitrate in association with H <sup>+</sup> fluxes in fine roots of <i>Populus popularis</i> . <i>Planta</i> , <b>2013</b> , 237, 919-31	4.7	92
150	Changes in carbon, nutrients and stoichiometric relations under different soil depths, plant tissues and ages in black locust plantations. <i>Acta Physiologiae Plantarum</i> , <b>2013</b> , 35, 2951-2964	2.6	41
149	Nitrogen metabolism of two contrasting poplar species during acclimation to limiting nitrogen availability. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 4207-24	7	141
148	Cadmium tolerance in six poplar species. <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 163-74	5.1	129
147	Root-induced tree species effects on the source/sink strength for greenhouse gases (CH <sub>4</sub> , N <sub>2</sub> O and CO <sub>2</sub> ) of a temperate deciduous forest soil. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 57, 587-597	7.5	33
146	Ectomycorrhiza affect architecture and nitrogen partitioning of beech ( <i>Fagus sylvatica</i> L.) seedlings under shade and drought. <i>Environmental and Experimental Botany</i> , <b>2013</b> , 87, 207-217	5.9	28
145	Incorporation of plant carbon and microbial nitrogen into the rhizosphere food web of beech and ash. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 62, 76-81	7.5	40
144	Roots from beech ( <i>Fagus sylvatica</i> L.) and ash ( <i>Fraxinus excelsior</i> L.) differentially affect soil microorganisms and carbon dynamics. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 61, 23-32	7.5	48
143	Volatile profiles of fungi--chemotyping of species and ecological functions. <i>Fungal Genetics and Biology</i> , <b>2013</b> , 54, 25-33	3.9	118
142	A transcriptomic network underlies microstructural and physiological responses to cadmium in <i>Populus x canescens</i> . <i>Plant Physiology</i> , <b>2013</b> , 162, 424-39	6.6	147
141	Spatial patterns of ectomycorrhizal assemblages in a monospecific forest in relation to host tree genotype. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 103	6.2	18



140	Growing poplars for research with and without mycorrhizas. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 332	6.2	35
139	<i>Populus euphratica</i> XTH overexpression enhances salinity tolerance by the development of leaf succulence in transgenic tobacco plants. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 4225-38	7	70
138	The nitrate transporter (NRT) gene family in poplar. <i>PLoS ONE</i> , <b>2013</b> , 8, e72126	3.7	59
137	Ectomycorrhizal colonization and diversity in relation to tree biomass and nutrition in a plantation of transgenic poplars with modified lignin biosynthesis. <i>PLoS ONE</i> , <b>2013</b> , 8, e59207	3.7	35
136	Cadmium interferes with auxin physiology and lignification in poplar. <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 1413-21	7	110
135	Nitrogen fertilization has differential effects on N allocation and lignin in two <i>Populus</i> species with contrasting ecology. <i>Trees - Structure and Function</i> , <b>2012</b> , 26, 1933-1942	2.6	34
134	Interference of Heavy Metal Toxicity with Auxin Physiology <b>2012</b> , 249-259		6
133	General relationships between abiotic soil properties and soil biota across spatial scales and different land-use types. <i>PLoS ONE</i> , <b>2012</b> , 7, e43292	3.7	105
132	<i>Verticillium longisporum</i> infection affects the leaf apoplastic proteome, metabolome, and cell wall properties in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e31435	3.7	90
131	Phosphorus Compartmentalization on the Cellular Level of Douglas Fir Root as Affected by Mn Toxicity: A Synchrotron-Based FTIR Approach. <i>Spectroscopy</i> , <b>2012</b> , 27, 265-272		10
130	Salt stress induces the formation of a novel type of pressure wood in two <i>Populus</i> species. <i>New Phytologist</i> , <b>2012</b> , 194, 129-141	9.8	71
129	Isoprene emission-free poplars--a chance to reduce the impact from poplar plantations on the atmosphere. <i>New Phytologist</i> , <b>2012</b> , 194, 70-82	9.8	43
128	N-fertilization has different effects on the growth, carbon and nitrogen physiology, and wood properties of slow- and fast-growing <i>Populus</i> species. <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 6173-85	7	100
127	Harnessing salt for woody biomass production. <i>Tree Physiology</i> , <b>2012</b> , 32, 1-3	4.2	33
126	<i>Verticillium</i> infection triggers VASCULAR-RELATED NAC DOMAIN7-dependent de novo xylem formation and enhances drought tolerance in <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>2012</b> , 24, 3823-37	11.6	81
125	Poplar wood rays are involved in seasonal remodeling of tree physiology. <i>Plant Physiology</i> , <b>2012</b> , 160, 1515-29	6.6	23
124	<i>Paxillus involutus</i> strains MAJ and NAU mediate K(+)/Na(+) homeostasis in ectomycorrhizal <i>Populus x canescens</i> under sodium chloride stress. <i>Plant Physiology</i> , <b>2012</b> , 159, 1771-86	6.6	59
123	Environmental factors affect Acidobacterial communities below the subgroup level in grassland and forest soils. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 7398-406	4.8	207

122	The vascular pathogen <i>Verticillium longisporum</i> requires a jasmonic acid-independent COI1 function in roots to elicit disease symptoms in <i>Arabidopsis</i> shoots. <i>Plant Physiology</i> , <b>2012</b> , 159, 1192-203	6.6	53
121	Net cadmium flux and accumulation reveal tissue-specific oxidative stress and detoxification in <i>Populus trichocarpa</i> . <i>Physiologia Plantarum</i> , <b>2011</b> , 143, 50-63	4.6	154
120	Combined activity of LACS1 and LACS4 is required for proper pollen coat formation in <i>Arabidopsis</i> . <i>Plant Journal</i> , <b>2011</b> , 68, 715-26	6.9	75
119	The ectomycorrhizal fungus ( <i>Paxillus involutus</i> ) modulates leaf physiology of poplar towards improved salt tolerance. <i>Environmental and Experimental Botany</i> , <b>2011</b> , 72, 304-311	5.9	46
118	Host preferences and differential contributions of deciduous tree species shape mycorrhizal species richness in a mixed Central European forest. <i>Mycorrhiza</i> , <b>2011</b> , 21, 297-308	3.9	119
117	Relating genetic variation of ecologically important tree traits to associated organisms in full-sib aspen families. <i>European Journal of Forest Research</i> , <b>2011</b> , 130, 707-716	2.7	10
116	Amelioration of planting stress by soil amendment with a hydrogel-mycorrhiza mixture for early establishment of beech ( <i>Fagus sylvatica</i> L.) seedlings. <i>Annals of Forest Science</i> , <b>2011</b> , 68, 803-810	3.1	19
115	FTIR-ATR-based prediction and modelling of lignin and energy contents reveals independent intra-specific variation of these traits in bioenergy poplars. <i>Plant Methods</i> , <b>2011</b> , 7, 9	5.8	89
114	Ectomycorrhizal fungal diversity, tree diversity and root nutrient relations in a mixed Central European forest. <i>Tree Physiology</i> , <b>2011</b> , 31, 531-8	4.2	40
113	Linking the salt transcriptome with physiological responses of a salt-resistant <i>Populus</i> species as a strategy to identify genes important for stress acclimation. <i>Plant Physiology</i> , <b>2010</b> , 154, 1697-709	6.6	92
112	Girdling affects ectomycorrhizal fungal (EMF) diversity and reveals functional differences in EMF community composition in a beech forest. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 1831-41	4.8	104
111	Carbon and nitrogen balance in beech roots under competitive pressure of soil-borne microorganisms induced by girdling, drought and glucose application. <i>Functional Plant Biology</i> , <b>2010</b> , 37, 879	2.7	19
110	Are beech ( <i>Fagus sylvatica</i> ) roots territorial?. <i>Forest Ecology and Management</i> , <b>2010</b> , 260, 1212-1217	3.9	18
109	Leaf litter decomposition in temperate deciduous forest stands with a decreasing fraction of beech ( <i>Fagus sylvatica</i> ). <i>Oecologia</i> , <b>2010</b> , 164, 1083-94	2.9	148
108	Changes in sulphur metabolism of grey poplar ( <i>Populus x canescens</i> ) leaves during salt stress: a metabolic link to photorespiration. <i>Tree Physiology</i> , <b>2010</b> , 30, 1161-73	4.2	10
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106	Influence of environmental pollution on leaf properties of urban plane trees, <i>Platanus orientalis</i> L. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2010</b> , 85, 251-5	2.7	55
105	RNAi-mediated suppression of isoprene emission in poplar transiently impacts phenolic metabolism under high temperature and high light intensities: a transcriptomic and metabolomic analysis. <i>Plant Molecular Biology</i> , <b>2010</b> , 74, 61-75	4.6	57

104	Pathway analysis of the transcriptome and metabolome of salt sensitive and tolerant poplar species reveals evolutionary adaptation of stress tolerance mechanisms. <i>BMC Plant Biology</i> , <b>2010</b> , 10, 150-153	5.3	113
103	Ectomycorrhiza and hydrogel protect hybrid poplar from water deficit and unravel plastic responses of xylem anatomy. <i>Environmental and Experimental Botany</i> , <b>2010</b> , 69, 189-197	5.9	46
102	Populus Responses to Abiotic Stress <b>2010</b> , 225-246		16
101	Mycorrhizal communities in relation to biomass production and nutrient use efficiency in two varieties of Douglas fir ( <i>Pseudotsuga menziesii</i> var. <i>menziesii</i> and var. <i>glauca</i> ) in different forest soils. <i>Soil Biology and Biochemistry</i> , <b>2009</b> , 41, 742-753	7.5	18
100	Tree girdling provides insight on the role of labile carbon in nitrogen partitioning between soil microorganisms and adult European beech. <i>Soil Biology and Biochemistry</i> , <b>2009</b> , 41, 1622-1631	7.5	144
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98	Salt stress affects xylem differentiation of grey poplar ( <i>Populus x canescens</i> ). <i>Planta</i> , <b>2009</b> , 229, 299-309	4.7	60
97	Beech carbon productivity as driver of ectomycorrhizal abundance and diversity. <i>Plant, Cell and Environment</i> , <b>2009</b> , 32, 992-1003	8.4	65
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95	Fatty acid metabolism in the ectomycorrhizal fungus <i>Laccaria bicolor</i> . <i>New Phytologist</i> , <b>2009</b> , 182, 950-964	4.8	24
94	Ectomycorrhizal fungus ( <i>Paxillus involutus</i> ) and hydrogels affect performance of <i>Populus euphratica</i> exposed to drought stress. <i>Annals of Forest Science</i> , <b>2009</b> , 66, 106-106	3.1	44
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92	FTIR-ATR spectroscopic analyses of changes in wood properties during particle- and fibreboard production of hard- and softwood trees. <i>BioResources</i> , <b>2009</b> , 4, 49-71	1.3	68
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11	Effects of Photooxidants on Plants <b>1989</b> , 251-258		4
10	The slow rise of the flash-light-induced alkalization by Photosystem II of the suspending medium of thylakoids is reversibly related to thylakoid stacking. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1986</b> , 848, 257-264	4.6	58
9	Theory of proton flow along appressed thylakoid membranes under both non-stationary and stationary conditions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1986</b> , 848, 265-273	4.6	48
8	The slow rate of proton consumption at the reducing side of Photosystem I is limited by the rate of redox reactions of extrinsic electron acceptors, but not by a diffusion barrier for protons. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1986</b> , 848, 274-278	4.6	15
7	Transient and intramembrane trapping of pumped protons in thylakoids. <i>FEBS Letters</i> , <b>1986</b> , 198, 263-267	8	10
6	Diffusion Barriers for Protons at the External Surface of Thylakoids <b>1984</b> , 261-264		
5	Hydrogen Sulfide Emission by Cultured Tobacco Cells. <i>Zeitschrift Für Pflanzenphysiologie</i> , <b>1983</b> , 111, 189-202		8
4	5-Oxo-prolinase activity in tobacco suspension cultures: Regulation by sulfate nutrition. <i>Physiologia Plantarum</i> , <b>1983</b> , 59, 61-66	4.6	3
3	Evidence for the participation of a 5-oxo-prolinase in degradation of glutathione in <i>Nicotiana tabacum</i> . <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1980</b> , 35, 708-11	1.7	14
2	Multi-omics analysis of xylem sap uncovers dynamic modulation of poplar defenses by ammonium and nitrate		2
1	Photosynthetic Nitrogen Use Efficiency of Two Poplar Varieties Commonly Grown in Short Rotation Coppice Plantations and Implications for Fertiliser Management 187-198		1