

Andrea Polle

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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	Plant responses to abiotic stresses: heavy metal-induced oxidative stress and protection by mycorrhization. <i>Journal of Experimental Botany</i> , 2002 , 53, 1351-1365	7	1231
264	Making the life of heavy metal-stressed plants a little easier. <i>Functional Plant Biology</i> , 2005 , 32, 481-494	2.7	783
263	Plant responses to abiotic stresses: heavy metal-induced oxidative stress and protection by mycorrhization. <i>Journal of Experimental Botany</i> , 2002 , 53, 1351-65	7	672
262	Cadmium-induced changes in antioxidative systems, hydrogen peroxide content, and differentiation in Scots pine roots. <i>Plant Physiology</i> , 2001 , 127, 887-98	6.6	590
261	Dissecting the superoxide dismutase-ascorbate-glutathione-pathway in chloroplasts by metabolic modeling. Computer simulations as a step towards flux analysis. <i>Plant Physiology</i> , 2001 , 126, 445-62	6.6	326
260	Increases in nitrogen uptake rather than nitrogen-use efficiency support higher rates of temperate forest productivity under elevated CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14014-9	11.5	303
259	Mycorrhizal Hyphal Turnover as a Dominant Process for Carbon Input into Soil Organic Matter. <i>Plant and Soil</i> , 2006 , 281, 15-24	4.2	283
258	Downregulation of cinnamoyl-coenzyme A reductase in poplar: multiple-level phenotyping reveals effects on cell wall polymer metabolism and structure. <i>Plant Cell</i> , 2007 , 19, 3669-91	11.6	280
257	Gradual soil water depletion results in reversible changes of gene expression, protein profiles, ecophysiology, and growth performance in <i>Populus euphratica</i> , a poplar growing in arid regions. <i>Plant Physiology</i> , 2007 , 143, 876-92	6.6	271
256	Environmental factors affect Acidobacterial communities below the subgroup level in grassland and forest soils. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 7398-406	4.8	207
255	Transgenic, non-isoprene emitting poplars don't like it hot. <i>Plant Journal</i> , 2007 , 51, 485-99	6.9	201
254	<i>Populus euphratica</i> displays apoplastic sodium accumulation, osmotic adjustment by decreases in calcium and soluble carbohydrates, and develops leaf succulence under salt stress. <i>Plant Physiology</i> , 2005 , 139, 1762-72	6.6	198
253	Transport and detoxification of manganese and copper in plants. <i>Brazilian Journal of Plant Physiology</i> , 2005 , 17, 103-112		198
252	Composition and Properties of Hydrogen Peroxide Decomposing Systems in Extracellular and Total Extracts from Needles of Norway Spruce (<i>Picea abies</i> L., Karst.). <i>Plant Physiology</i> , 1990 , 94, 312-9	6.6	193
251	Gene expression and metabolite profiling of <i>Populus euphratica</i> growing in the Negev desert. <i>Genome Biology</i> , 2005 , 6, R101	18.3	186
250	Heavy metal accumulation and signal transduction in herbaceous and woody plants: Paving the way for enhancing phytoremediation efficiency. <i>Biotechnology Advances</i> , 2016 , 34, 1131-1148	17.8	185
249	Cadmium and H ₂ O ₂ -induced oxidative stress in <i>Populus trichocarpa</i> roots. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 577-584	5.4	175

248	Regulation of glutathione synthesis in leaves of transgenic poplar (<i>Populus tremula</i> X <i>P. alba</i>) overexpressing glutathione synthetase. <i>Plant Journal</i> , 1995 , 7, 141-145	6.9	174
247	Overexpression of bacterial γ -glutamylcysteine synthetase mediates changes in cadmium influx, allocation and detoxification in poplar. <i>New Phytologist</i> , 2015 , 205, 240-54	9.8	168
246	Upgrading root physiology for stress tolerance by ectomycorrhizas: insights from metabolite and transcriptional profiling into reprogramming for stress anticipation. <i>Plant Physiology</i> , 2009 , 151, 1902-17	6.6	158
245	Net cadmium flux and accumulation reveal tissue-specific oxidative stress and detoxification in <i>Populus trichocarpa</i> . <i>Physiologia Plantarum</i> , 2011 , 143, 50-63	4.6	154
244	Leaf litter decomposition in temperate deciduous forest stands with a decreasing fraction of beech (<i>Fagus sylvatica</i>). <i>Oecologia</i> , 2010 , 164, 1083-94	2.9	148
243	A transcriptomic network underlies microstructural and physiological responses to cadmium in <i>Populus x canescens</i> . <i>Plant Physiology</i> , 2013 , 162, 424-39	6.6	147
242	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> , 2009 , 41, 1622-1631	7.5	144
241	Volatile signalling by sesquiterpenes from ectomycorrhizal fungi reprogrammes root architecture. <i>Nature Communications</i> , 2015 , 6, 6279	17.4	143
240	Nitrogen metabolism of two contrasting poplar species during acclimation to limiting nitrogen availability. <i>Journal of Experimental Botany</i> , 2013 , 64, 4207-24	7	141
239	Cadmium tolerance in six poplar species. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 163-74	5.1	129
238	Comparison of different methods for lignin determination as a basis for calibration of near-infrared reflectance spectroscopy and implications of lignoproteins. <i>Journal of Chemical Ecology</i> , 2002 , 28, 2483-501	2.7	129
237	Host preferences and differential contributions of deciduous tree species shape mycorrhizal species richness in a mixed Central European forest. <i>Mycorrhiza</i> , 2011 , 21, 297-308	3.9	119
236	FTIR spectroscopy, chemical and histochemical characterisation of wood and lignin of five tropical timber wood species of the family of Dipterocarpaceae. <i>Wood Science and Technology</i> , 2010 , 44, 225-242	2.5	119
235	Volatile profiles of fungi--chemotyping of species and ecological functions. <i>Fungal Genetics and Biology</i> , 2013 , 54, 25-33	3.9	118
234	Phosphorus in forest ecosystems: New insights from an ecosystem nutrition perspective. <i>Journal of Plant Nutrition and Soil Science</i> , 2016 , 179, 129-135	2.3	115
233	Pathway analysis of the transcriptome and metabolome of salt sensitive and tolerant poplar species reveals evolutionary adaption of stress tolerance mechanisms. <i>BMC Plant Biology</i> , 2010 , 10, 150	5.3	113
232	Soil phosphorus supply controls P nutrition strategies of beech forest ecosystems in Central Europe. <i>Biogeochemistry</i> , 2017 , 136, 5-29	3.8	111
231	Cadmium interferes with auxin physiology and lignification in poplar. <i>Journal of Experimental Botany</i> , 2012 , 63, 1413-21	7	110

230	Woody biomass production during the second rotation of a bio-energy Populus plantation increases in a future high CO ₂ world. <i>Global Change Biology</i> , 2006 , 12, 1094-1106	11.4	106
229	General relationships between abiotic soil properties and soil biota across spatial scales and different land-use types. <i>PLoS ONE</i> , 2012 , 7, e43292	3.7	105
228	Girdling affects ectomycorrhizal fungal (EMF) diversity and reveals functional differences in EMF community composition in a beech forest. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1831-41	4.8	104
227	N-fertilization has different effects on the growth, carbon and nitrogen physiology, and wood properties of slow- and fast-growing Populus species. <i>Journal of Experimental Botany</i> , 2012 , 63, 6173-85 ⁷		100
226	Multiple forest attributes underpin the supply of multiple ecosystem services. <i>Nature Communications</i> , 2018 , 9, 4839	17.4	99
225	Fourier transform infrared microscopy and imaging: detection of fungi in wood. <i>Fungal Genetics and Biology</i> , 2005 , 42, 829-35	3.9	94
224	Global poplar root and leaf transcriptomes reveal links between growth and stress responses under nitrogen starvation and excess. <i>Tree Physiology</i> , 2015 , 35, 1283-302	4.2	93
223	Ectomycorrhizas with Paxillus involutus enhance cadmium uptake and tolerance in Populus trichocarpa. <i>Plant, Cell and Environment</i> , 2014 , 37, 627-42	8.4	93
222	Ionic homeostasis and reactive oxygen species control in leaves and xylem sap of two poplars subjected to NaCl stress. <i>Tree Physiology</i> , 2008 , 28, 947-57	4.2	93
221	Differential stress responses of antioxidative systems to drought in pendunculate oak (Quercus robur) and maritime pine (Pinus pinaster) grown under high CO ₂ concentrations. <i>Journal of Experimental Botany</i> , 2001 , 52, 133-143	7	93
220	Net fluxes of ammonium and nitrate in association with H ⁺ fluxes in fine roots of Populus popularis. <i>Planta</i> , 2013 , 237, 919-31	4.7	92
219	Linking the salt transcriptome with physiological responses of a salt-resistant Populus species as a strategy to identify genes important for stress acclimation. <i>Plant Physiology</i> , 2010 , 154, 1697-709	6.6	92
218	The role of ectomycorrhizas in heavy metal stress tolerance of host plants. <i>Environmental and Experimental Botany</i> , 2014 , 108, 47-62	5.9	91
217	Verticillium longisporum infection affects the leaf apoplastic proteome, metabolome, and cell wall properties in Arabidopsis thaliana. <i>PLoS ONE</i> , 2012 , 7, e31435	3.7	90
216	Differential temperature dependencies of antioxidative enzymes in two contrasting species: Fagus sylvatica and Coleus blumei. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 141-150	5.4	90
215	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> , 2011 , 7, 9	5.8	89
214	Field studies on Norway spruce trees at high altitudes: II. Defence systems against oxidative stress in needles. <i>New Phytologist</i> , 1992 , 121, 635-642	9.8	87
213	Exogenous abscisic acid alleviates zinc uptake and accumulation in Populus trichocarpa exposed to excess zinc. <i>Plant, Cell and Environment</i> , 2015 , 38, 207-23	8.4	86

212	Soluble phenylpropanoids are involved in the defense response of Arabidopsis against Verticillium longisporum. <i>New Phytologist</i> , 2014 , 202, 823-837	9.8	83
211	Antioxidants and Manganese Deficiency in Needles of Norway Spruce (<i>Picea abies</i> L.) Trees. <i>Plant Physiology</i> , 1992 , 99, 1084-9	6.6	83
210	Verticillium infection triggers VASCULAR-RELATED NAC DOMAIN7-dependent de novo xylem formation and enhances drought tolerance in Arabidopsis. <i>Plant Cell</i> , 2012 , 24, 3823-37	11.6	81
209	Leaf photosynthesis, fluorescence response to salinity and the relevance to chloroplast salt compartmentation and anti-oxidative stress in two poplars. <i>Trees - Structure and Function</i> , 2007 , 21, 581-591	2.6	81
208	Mehler Reaction: Friend or Foe in Photosynthesis?. <i>Botanica Acta</i> , 1996 , 109, 84-89		81
207	Phosphorus and nitrogen physiology of two contrasting poplar genotypes when exposed to phosphorus and/or nitrogen starvation. <i>Tree Physiology</i> , 2016 , 36, 22-38	4.2	78
206	Leaf litter production and decomposition in a poplar short-rotation coppice exposed to free air CO ₂ enrichment (POPFACE). <i>Global Change Biology</i> , 2005 , 11, 971-982	11.4	77
205	What the transcriptome does not tell - proteomics and metabolomics are closer to the plantsR patho-phenotype. <i>Current Opinion in Plant Biology</i> , 2015 , 26, 26-31	9.9	76
204	Defence reactions in the apoplastic proteome of oilseed rape (<i>Brassica napus</i> var. <i>napus</i>) attenuate Verticillium longisporum growth but not disease symptoms. <i>BMC Plant Biology</i> , 2008 , 8, 129	5.3	76
203	Consequences of Air Pollution on Shoot-Root Interactions. <i>Journal of Plant Physiology</i> , 1996 , 148, 296-306	3.6	76
202	Combined activity of LACS1 and LACS4 is required for proper pollen coat formation in Arabidopsis. <i>Plant Journal</i> , 2011 , 68, 715-26	6.9	75
201	On the salty side of life: molecular, physiological and anatomical adaptation and acclimation of trees to extreme habitats. <i>Plant, Cell and Environment</i> , 2015 , 38, 1794-816	8.4	71
200	Salt stress induces the formation of a novel type of pressure woodR in two Populus species. <i>New Phytologist</i> , 2012 , 194, 129-141	9.8	71
199	The Influence of Apoplastic Ascorbate on the Activities of Cell Wall-Associated Peroxidase and NADH Oxidase in Needles of Norway Spruce (<i>Picea abies</i> L.). <i>Plant and Cell Physiology</i> , 1994 , 35, 1231-1238	4.9	71
198	Determinants of Acidobacteria activity inferred from the relative abundances of 16S rRNA transcripts in German grassland and forest soils. <i>Environmental Microbiology</i> , 2014 , 16, 658-75	5.2	70
197	<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> , 2013 , 64, 4225-38	7	70
196	Molecular characterization of PeNhaD1: the first member of the NhaD Na ⁺ /H ⁺ antiporter family of plant origin. <i>Plant Molecular Biology</i> , 2005 , 58, 75-88	4.6	70
195	Belowground communication: impacts of volatile organic compounds (VOCs) from soil fungi on other soil-inhabiting organisms. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8651-65	5.7	68

194	FTIR-ATR spectroscopic analyses of changes in wood properties during particle- and fibreboard production of hard- and softwood trees. <i>BioResources</i> , 2009 , 4, 49-71	1.3	68
193	Beech carbon productivity as driver of ectomycorrhizal abundance and diversity. <i>Plant, Cell and Environment</i> , 2009 , 32, 992-1003	8.4	65
192	Class I KNOX transcription factors promote differentiation of cambial derivatives into xylem fibers in the Arabidopsis hypocotyl. <i>Development (Cambridge)</i> , 2014 , 141, 4311-9	6.6	64
191	Attributing functions to ectomycorrhizal fungal identities in assemblages for nitrogen acquisition under stress. <i>ISME Journal</i> , 2014 , 8, 321-30	11.9	64
190	Salt stress affects xylem differentiation of grey poplar (<i>Populus x canescens</i>). <i>Planta</i> , 2009 , 229, 299-309	4.7	60
189	Characterisation of antioxidative systems in the ectomycorrhiza-building basidiomycete <i>Paxillus involutus</i> (Bartsch) Fr. and its reaction to cadmium. <i>FEMS Microbiology Ecology</i> , 2002 , 42, 359-66	4.3	60
188	Divergent habitat filtering of root and soil fungal communities in temperate beech forests. <i>Scientific Reports</i> , 2016 , 6, 31439	4.9	59
187	The nitrate transporter (NRT) gene family in poplar. <i>PLoS ONE</i> , 2013 , 8, e72126	3.7	59
186	<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> , 2012 , 159, 1771-86	6.6	59
185	Effect of NaCl on photosynthesis, salt accumulation and ion compartmentation in two mangrove species, <i>Kandelia candel</i> and <i>Bruguiera gymnorhiza</i> . <i>Aquatic Botany</i> , 2008 , 88, 303-310	1.8	59
184	Influence of free air CO ₂ enrichment (EUROFACE) and nitrogen fertilisation on the anatomy of juvenile wood of three poplar species after coppicing. <i>Trees - Structure and Function</i> , 2005 , 19, 109-118	2.6	58
183	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> , 1986 , 848, 257-264	4.6	58
182	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> , 2010 , 74, 61-75	4.6	57
181	Wood composition and energy content in a poplar short rotation plantation on fertilized agricultural land in a future CO ₂ atmosphere. <i>Global Change Biology</i> , 2009 , 15, 38-47	11.4	56
180	Osmotic Stress and Ion-Specific Effects on Xylem Abscisic Acid and the Relevance to Salinity Tolerance in Poplar. <i>Journal of Plant Growth Regulation</i> , 2002 , 21, 224-233	4.7	56
179	Physiological and molecular mechanisms of heavy metal accumulation in nonmycorrhizal versus mycorrhizal plants. <i>Plant, Cell and Environment</i> , 2019 , 42, 1087-1103	8.4	56
178	Influence of environmental pollution on leaf properties of urban plane trees, <i>Platanus orientalis</i> L. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2010 , 85, 251-5	2.7	55
177	Carbon-based secondary metabolites and internal nitrogen pools in <i>Populus nigra</i> under Free Air CO ₂ Enrichment (FACE) and nitrogen fertilisation. <i>Plant and Soil</i> , 2008 , 304, 45-57	4.2	54

176	Comparative transcriptomic analysis reveals the roles of overlapping heat-/drought-responsive genes in poplars exposed to high temperature and drought. <i>Scientific Reports</i> , 2017 , 7, 43215	4.9	53
175	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> , 2012 , 159, 1192-203	6.6	53
174	Differential effects of elevated ozone on two hybrid aspen genotypes predisposed to chronic ozone fumigation. Role of ethylene and salicylic acid. <i>Plant Physiology</i> , 2003 , 132, 196-205	6.6	53
173	Intensive tropical land use massively shifts soil fungal communities. <i>Scientific Reports</i> , 2019 , 9, 3403	4.9	52
172	Trade-offs between multifunctionality and profit in tropical smallholder landscapes. <i>Nature Communications</i> , 2020 , 11, 1186	17.4	52
171	Anatomical, physiological and transcriptional responses of two contrasting poplar genotypes to drought and re-watering. <i>Physiologia Plantarum</i> , 2014 , 151, 480-94	4.6	52
170	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> , 2014 , 107, 113-124	5.9	52
169	Freezing tolerance in two Norway spruce (<i>Picea abies</i> [L.] Karst.) progenies is physiologically correlated with drought tolerance. <i>Journal of Plant Physiology</i> , 2005 , 162, 549-58	3.6	49
168	Specialisation and diversity of multiple trophic groups are promoted by different forest features. <i>Ecology Letters</i> , 2019 , 22, 170-180	10	49
167	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> , 2013 , 61, 23-32	7.5	48
166	Theory of proton flow along appressed thylakoid membranes under both non-stationary and stationary conditions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1986 , 848, 265-273	4.6	48
165	The ectomycorrhizal fungus (<i>Paxillus involutus</i>) modulates leaf physiology of poplar towards improved salt tolerance. <i>Environmental and Experimental Botany</i> , 2011 , 72, 304-311	5.9	46
164	Ectomycorrhiza and hydrogel protect hybrid poplar from water deficit and unravel plastic responses of xylem anatomy. <i>Environmental and Experimental Botany</i> , 2010 , 69, 189-197	5.9	46
163	Heavy metal signalling in plants: linking cellular and organismic responses. <i>Topics in Current Genetics</i> , 2003 , 187-215		46
162	Field studies on Norway spruce trees at high altitudes. <i>New Phytologist</i> , 1992 , 121, 89-99	9.8	46
161	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> , 2009 , 66, 106-106	3.1	44
160	Mycorrhiza-Triggered Transcriptomic and Metabolomic Networks Impinge on Herbivore Fitness. <i>Plant Physiology</i> , 2018 , 176, 2639-2656	6.6	43
159	Isoprene emission-free poplars--a chance to reduce the impact from poplar plantations on the atmosphere. <i>New Phytologist</i> , 2012 , 194, 70-82	9.8	43

158	Increased nitrogen-use efficiency of a short-rotation poplar plantation in elevated CO ₂ concentration. <i>Tree Physiology</i> , 2007 , 27, 1153-63	4.2	43
157	Engineering Drought Resistance in Forest Trees. <i>Frontiers in Plant Science</i> , 2018 , 9, 1875	6.2	42
156	Changes in carbon, nutrients and stoichiometric relations under different soil depths, plant tissues and ages in black locust plantations. <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 2951-2964	2.6	41
155	Seasonal Fluctuations of Ascorbate-Related Enzymes: Acute and Delayed Effects of Late Frost in Spring on Antioxidative Systems in Needles of Norway Spruce (<i>Picea abies</i> L.). <i>Plant and Cell Physiology</i> , 1996 , 37, 717-725	4.9	41
154	Manganese toxicity in two varieties of Douglas fir (<i>Pseudotsuga menziesii</i> var. <i>viridis</i> and <i>glauca</i>) seedlings as affected by phosphorus supply. <i>Functional Plant Biology</i> , 2007 , 34, 31-40	2.7	41
153	Diurnal fluctuations of antioxidative systems in leaves of field-grown beech trees (<i>Fagus sylvatica</i>): Responses to light and temperature. <i>Physiologia Plantarum</i> , 2001 , 111, 158-164	4.6	41
152	Superoxide Dismutase Activity in Needles of Norwegian Spruce Trees (<i>Picea abies</i> L.). <i>Plant Physiology</i> , 1989 , 90, 1310-5	6.6	41
151	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> , 2016 , 98, 127-137	7.5	41
150	Interspecific temporal and spatial differences in the acquisition of litter-derived nitrogen by ectomycorrhizal fungal assemblages. <i>New Phytologist</i> , 2013 , 199, 520-528	9.8	40
149	Incorporation of plant carbon and microbial nitrogen into the rhizosphere food web of beech and ash. <i>Soil Biology and Biochemistry</i> , 2013 , 62, 76-81	7.5	40
148	Ectomycorrhizal fungal diversity, tree diversity and root nutrient relations in a mixed Central European forest. <i>Tree Physiology</i> , 2011 , 31, 531-8	4.2	40
147	GH3::GUS reflects cell-specific developmental patterns and stress-induced changes in wood anatomy in the poplar stem. <i>Tree Physiology</i> , 2008 , 28, 1305-15	4.2	40
146	FTIR spectroscopy in combination with principal component analysis or cluster analysis as a tool to distinguish beech (<i>Fagus sylvatica</i> L.) trees grown at different sites. <i>Holzforchung</i> , 2008 , 62,	2	38
145	Interactive Effects of Elevated CO ₂ , Ozone and Drought Stress on the Activities of Antioxidative Enzymes in Needles of Norway Spruce Trees (<i>Picea abies</i> , [L] Karsten) Grown with Luxurious N-Supply. <i>Journal of Plant Physiology</i> , 1996 , 148, 351-355	3.6	38
144	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> , 2018 , 117, 191-202	7.5	38
143	Uptake and translocation of manganese in seedlings of two varieties of Douglas fir (<i>Pseudotsuga menziesii</i> var. <i>viridis</i> and <i>glauca</i>). <i>New Phytologist</i> , 2006 , 170, 11-20	9.8	36
142	Growing poplars for research with and without mycorrhizas. <i>Frontiers in Plant Science</i> , 2013 , 4, 332	6.2	35
141	Quantitative trait loci affecting stomatal density and growth in a <i>Quercus robur</i> progeny: implications for the adaptation to changing environments. <i>Global Change Biology</i> , 2008 , 14, 1934-1946	11.4	35

140	Carbon partitioning to mobile and structural fractions in poplar wood under elevated CO ₂ (EUROFACE) and N fertilization. <i>Global Change Biology</i> , 2006 , 12, 272-283	11.4	35
139	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> , 2013 , 8, e59207	3.7	35
138	Reducing Fertilizer and Avoiding Herbicides in Oil Palm Plantations: Ecological and Economic Valuations. <i>Frontiers in Forests and Global Change</i> , 2019 , 2,	3.7	34
137	Intra-specific variations in expression of stress-related genes in beech progenies are stronger than drought-induced responses. <i>Tree Physiology</i> , 2014 , 34, 1348-61	4.2	34
136	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> , 2012 , 26, 1933-1942	2.6	34
135	Protection from oxidative stress in transgenic plants. <i>Biochemical Society Transactions</i> , 1994 , 22, 936-40	5.1	34
134	Root-induced tree species effects on the source/sink strength for greenhouse gases (CH ₄ , N ₂ O and CO ₂) of a temperate deciduous forest soil. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 587-597	7.5	33
133	Harnessing salt for woody biomass production. <i>Tree Physiology</i> , 2012 , 32, 1-3	4.2	33
132	Early drought-induced changes to the needle proteome of Norway spruce. <i>Tree Physiology</i> , 2007 , 27, 1423-31	4.2	33
131	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> , 2016 , 179, 151-158	2.3	33
130	Ectomycorrhizal fungal diversity increases phosphorus uptake efficiency of European beech. <i>New Phytologist</i> , 2018 , 220, 1200-1210	9.8	33
129	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> , 2014 , 14, 391	5.3	32
128	Climate Change Impairs Nitrogen Cycling in European Beech Forests. <i>PLoS ONE</i> , 2016 , 11, e0158823	3.7	32
127	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> , 2015 , 6, 634	6.2	30
126	Effect of magnesium-deficiency on antioxidative systems in needles of Norway spruce [<i>Picea abies</i> (L.) Karst.] grown with different ratios of nitrate and ammonium as nitrogen sources. <i>New Phytologist</i> , 1994 , 128, 621-628	9.8	30
125	Phosphate uptake kinetics and tissue-specific transporter expression profiles in poplar (<i>Populus trichocarpa</i>) at different phosphorus availabilities. <i>BMC Plant Biology</i> , 2016 , 16, 206	5.3	29
124	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> , 2018 , 38, 37-51	4.2	28
123	Temperature-induced lipocalin (TIL) is translocated under salt stress and protects chloroplasts from ion toxicity. <i>Journal of Plant Physiology</i> , 2014 , 171, 250-9	3.6	28

122	Ectomycorrhiza affect architecture and nitrogen partitioning of beech (<i>Fagus sylvatica</i> L.) seedlings under shade and drought. <i>Environmental and Experimental Botany</i> , 2013 , 87, 207-217	5.9	28
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119	The Effect of Elevated [CO ₂] on Uptake and Allocation of ¹³ C and ¹⁵ N in Beech (<i>Fagus sylvatica</i> L.) during Leafing. <i>Plant Biology</i> , 2000 , 2, 113-120	3.7	26
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117	Poplar nutrition under drought as affected by ectomycorrhizal colonization. <i>Environmental and Experimental Botany</i> , 2014 , 108, 89-98	5.9	25
116	Degradation of Root Community Traits as Indicator for Transformation of Tropical Lowland Rain Forests into Oil Palm and Rubber Plantations. <i>PLoS ONE</i> , 2015 , 10, e0138077	3.7	25
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114	Biomass traits and candidate genes for bioenergy revealed through association genetics in coppiced European <i>Populus nigra</i> (L.). <i>Biotechnology for Biofuels</i> , 2016 , 9, 195	7.8	24
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111	Changes in Trophic Groups of Protists With Conversion of Rainforest Into Rubber and Oil Palm Plantations. <i>Frontiers in Microbiology</i> , 2019 , 10, 240	5.7	23
110	Poplar wood rays are involved in seasonal remodeling of tree physiology. <i>Plant Physiology</i> , 2012 , 160, 1515-29	6.6	23
109	The influence of the ectomycorrhizal fungus <i>Rhizopogon subareolatus</i> on growth and nutrient element localisation in two varieties of Douglas fir (<i>Pseudotsuga menziesii</i> var. <i>menziesii</i> and var. <i>glauca</i>) in response to manganese stress. <i>Mycorrhiza</i> , 2008 , 18, 227-239	3.9	23
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106	Segregation of nitrogen use between ammonium and nitrate of ectomycorrhizas and beech trees. <i>Plant, Cell and Environment</i> , 2016 , 39, 2691-2700	8.4	22
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