Andrea Polle

List of Publications by Year
in descending order

269 papers	20,965 citations	7568 77 h-index	12597 132 g-index
279 all docs	279 docs citations	279 times ranked	19271 citing authors

#	Article	IF	Citations
1	Plant responses to abiotic stresses: heavy metalâ€induced oxidative stress and protection by mycorrhization. Journal of Experimental Botany, 2002, 53, 1351-1365.	4.8	1,257
2	Making the life of heavy metal-stressed plants a little easier. Functional Plant Biology, 2005, 32, 481.	2.1	933
3	Plant responses to abiotic stresses: heavy metal-induced oxidative stress and protection by mycorrhization. Journal of Experimental Botany, 2002, 53, 1351-65.	4.8	730
4	Cadmium-Induced Changes in Antioxidative Systems, Hydrogen Peroxide Content, and Differentiation in Scots Pine Roots. Plant Physiology, 2001, 127, 887-898.	4.8	656
5	Dissecting the Superoxide Dismutase-Ascorbate-Glutathione-Pathway in Chloroplasts by Metabolic Modeling. Computer Simulations as a Step towards Flux Analysis. Plant Physiology, 2001, 126, 445-462.	4.8	368
6	Increases in nitrogen uptake rather than nitrogen-use efficiency support higher rates of temperate forest productivity under elevated CO ₂. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14014-14019.	7.1	353
7	Downregulation of Cinnamoyl-Coenzyme A Reductase in Poplar: Multiple-Level Phenotyping Reveals Effects on Cell Wall Polymer Metabolism and Structure. Plant Cell, 2007, 19, 3669-3691.	6.6	352
8	Mycorrhizal Hyphal Turnover as a Dominant Process for Carbon Input into Soil Organic Matter. Plant and Soil, 2006, 281, 15-24.	3.7	345
9	Gradual Soil Water Depletion Results in Reversible Changes of Gene Expression, Protein Profiles, Ecophysiology, and Growth Performance in Populus euphratica, a Poplar Growing in Arid Regions. Plant Physiology, 2007, 143, 876-892.	4.8	338
10	Heavy metal accumulation and signal transduction in herbaceous and woody plants: Paving the way for enhancing phytoremediation efficiency. Biotechnology Advances, 2016, 34, 1131-1148.	11.7	283
11	Environmental Factors Affect Acidobacterial Communities below the Subgroup Level in Grassland and Forest Soils. Applied and Environmental Microbiology, 2012, 78, 7398-7406.	3.1	272
12	Populus euphratica Displays Apoplastic Sodium Accumulation, Osmotic Adjustment by Decreases in Calcium and Soluble Carbohydrates, and Develops Leaf Succulence under Salt Stress. Plant Physiology, 2005, 139, 1762-1772.	4.8	261
13	Transport and detoxification of manganese and copper in plants. Brazilian Journal of Plant Physiology, 2005, 17, 103-112.	0.5	256
14	Transgenic, non-isoprene emitting poplars donâ€™t like it hot. Plant Journal, 2007, 51, 485-499.	5.7	229
15	Composition and Properties of Hydrogen Peroxide Decomposing Systems in Extracellular and Total Extracts from Needles of Norway Spruce (<i>Picea abies</i> L., Karst.). Plant Physiology, 1990, 94, 312-319.	4.8	228
16	Overexpression of bacterial Î³â€glutamylcysteine synthetase mediates changes in cadmium influx, allocation and detoxification in poplar. New Phytologist, 2015, 205, 240-254.	7.3	214
17	Volatile signalling by sesquiterpenes from ectomycorrhizal fungi reprogrammes root architecture. Nature Communications, 2015, 6, 6279.	12.8	211
18	Gene expression and metabolite profiling of Populus euphratica growing in the Negev desert. Genome Biology, 2005, 6, R101.	9.6	208

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19	Regulation of glutathione synthesis in leaves of transgenic poplar (Populus tremula X P. alba) overexpressing glutathione synthetase. Plant Journal, 1995, 7, 141-145.	5.7	203
20	Net cadmium flux and accumulation reveal tissueâ€specific oxidative stress and detoxification in <i>Populus Ã— canescens</i>. Physiologia Plantarum, 2011, 143, 50-63.	5.2	194
21	A Transcriptomic Network Underlies Microstructural and Physiological Responses to Cadmium in <i>Populus</i> Ã— <i>canescens</i> Â Â Â. Plant Physiology, 2013, 162, 424-439.	4.8	187
22	Cadmium and H2O2-induced oxidative stress in Populus Ã— canescens roots. Plant Physiology and Biochemistry, 2002, 40, 577-584.	5.8	186
23	Upgrading Root Physiology for Stress Tolerance by Ectomycorrhizas: Insights from Metabolite and Transcriptional Profiling into Reprogramming for Stress Anticipation. Plant Physiology, 2009, 151, 1902-1917.	4.8	186
24	Multiple forest attributes underpin the supply of multiple ecosystem services. Nature Communications, 2018, 9, 4839.	12.8	182
25	Nitrogen metabolism of two contrasting poplar species during acclimation to limiting nitrogen availability. Journal of Experimental Botany, 2013, 64, 4207-4224.	4.8	180
26	Leaf litter decomposition in temperate deciduous forest stands with a decreasing fraction of beech (Fagus sylvatica). Oecologia, 2010, 164, 1083-1094.	2.0	172
27	Soil phosphorus supply controls P nutrition strategies of beech forest ecosystems in Central Europe. Biogeochemistry, 2017, 136, 5-29.	3.5	171
28	Phosphorus in forest ecosystems: New insights from an ecosystem nutrition perspective. Journal of Plant Nutrition and Soil Science, 2016, 179, 129-135.	1.9	169
29	Tree girdling provides insight on the role of labile carbon in nitrogen partitioning between soil microorganisms and adult European beech. Soil Biology and Biochemistry, 2009, 41, 1622-1631.	8.8	167
30	Host preferences and differential contributions of deciduous tree species shape mycorrhizal species richness in a mixed Central European forest. Mycorrhiza, 2011, 21, 297-308.	2.8	157
31	Cadmium tolerance in six poplar species. Environmental Science and Pollution Research, 2013, 20, 163-174.	5.3	157
32	Trade-offs between multifunctionality and profit in tropical smallholder landscapes. Nature Communications, 2020, 11, 1186.	12.8	156
33	Volatile profiles of fungi â€“ Chemotyping of species and ecological functions. Fungal Genetics and Biology, 2013, 54, 25-33.	2.1	150
34	Comparison of different methods for lignin determination as a basis for calibration of near-infrared reflectance spectroscopy and implications of lignoproteins. Journal of Chemical Ecology, 2002, 28, 2483-2501.	1.8	149
35	FTIR spectroscopy, chemical and histochemical characterisation of wood and lignin of five tropical timber wood species of the family of Dipterocarpaceae. Wood Science and Technology, 2010, 44, 225-242.	3.2	148
36	General Relationships between Abiotic Soil Properties and Soil Biota across Spatial Scales and Different Land-Use Types. PLoS ONE, 2012, 7, e43292.	2.5	142

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37	Pathway analysis of the transcriptome and metabolome of salt sensitive and tolerant poplar species reveals evolutionary adaption of stress tolerance mechanisms. BMC Plant Biology, 2010, 10, 150.	3.6	141
38	Cadmium interferes with auxin physiology and lignification in poplar. Journal of Experimental Botany, 2012, 63, 1413-1421.	4.8	136
39	N-fertilization has different effects on the growth, carbon and nitrogen physiology, and wood properties of slow- and fast-growing Populus species. Journal of Experimental Botany, 2012, 63, 6173-6185.	4.8	131
40	Global poplar root and leaf transcriptomes reveal links between growth and stress responses under nitrogen starvation and excess. Tree Physiology, 2015, 35, 1283-1302.	3.1	131
41	Exogenous abscisic acid alleviates zinc uptake and accumulation in <scp><i>P</i></scp><i>opulus</i>â€‰Ã—â€‰<i>canescens</i> exposed to excess zinc. Plant, Cell and Environment, 2015, 38, 207-223.	5.7	129
42	Girdling Affects Ectomycorrhizal Fungal (EMF) Diversity and Reveals Functional Differences in EMF Community Composition in a Beech Forest. Applied and Environmental Microbiology, 2010, 76, 1831-1841.	3.1	126
43	The role of ectomycorrhizas in heavy metal stress tolerance of host plants. Environmental and Experimental Botany, 2014, 108, 47-62.	4.2	125
44	What the transcriptome does not tell â€" proteomics and metabolomics are closer to the plantsâ€™ patho-phenotype. Current Opinion in Plant Biology, 2015, 26, 26-31.	7.1	124
45	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. Plant Physiology, 2010, 154, 1697-1709.	4.8	120
46	Ectomycorrhizas with <i><scp>P</scp>axillus involutus</i> enhance cadmium uptake and tolerance in <i><scp>P</scp>opulus</i>â€‰Ã—â€‰<i>canescens</i>. Plant, Cell and Environment, 2014, 37, 627-642.	5.7	118
47	Ionic homeostasis and reactive oxygen species control in leaves and xylem sap of two poplars subjected to NaCl stress. Tree Physiology, 2008, 28, 947-957.	3.1	116
48	Woody biomass production during the second rotation of a bio-energy Populus plantation increases in a future high CO2 world. Global Change Biology, 2006, 12, 1094-1106.	9.5	115
49	Fourier transform infrared microscopy and imaging: Detection of fungi in wood. Fungal Genetics and Biology, 2005, 42, 829-835.	2.1	114
50	Physiological and molecular mechanisms of heavy metal accumulation in nonmycorrhizal versus mycorrhizal plants. Plant, Cell and Environment, 2019, 42, 1087-1103.	5.7	113
51	FTIR-ATR-based prediction and modelling of lignin and energy contents reveals independent intra-specific variation of these traits in bioenergy poplars. Plant Methods, 2011, 7, 9.	4.3	112
52	Verticillium longisporum Infection Affects the Leaf Apoplastic Proteome, Metabolome, and Cell Wall Properties in Arabidopsis thaliana. PLoS ONE, 2012, 7, e31435.	2.5	112
53	Net fluxes of ammonium and nitrate in association with H+ fluxes in fine roots of Populus popularis. Planta, 2013, 237, 919-931.	3.2	112
54	Belowground communication: impacts of volatile organic compounds (VOCs) from soil fungi on other soil-inhabiting organisms. Applied Microbiology and Biotechnology, 2016, 100, 8651-8665.	3.6	111

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55	<i>Verticillium</i> Infection Triggers VASCULAR-RELATED NAC DOMAIN7â€"Dependent de Novo Xylem Formation and Enhances Drought Tolerance in <i>Arabidopsis</i> Â. Plant Cell, 2012, 24, 3823-3837.	6.6	110
56	Soluble phenylpropanoids are involved in the defense response of <scp>A</scp>rabidopsis against <i><scp>V</scp>erticillium longisporum</i>. New Phytologist, 2014, 202, 823-837.	7.3	110
57	On the salty side of life: molecular, physiological and anatomical adaptation and acclimation of trees to extreme habitats. Plant, Cell and Environment, 2015, 38, 1794-1816.	5.7	109
58	Differential temperature dependencies of antioxidative enzymes in two contrasting species: Fagus sylvatica and Coleus blumei. Plant Physiology and Biochemistry, 2002, 40, 141-150.	5.8	108
59	Defence reactions in the apoplastic proteome of oilseed rape (Brassica napus var. napus) attenuate Verticillium longisporumgrowth but not disease symptoms. BMC Plant Biology, 2008, 8, 129.	3.6	107
60	Determinants of <i><scp>A</scp>cidobacteria</i> activity inferred from the relative abundances of 16<scp>S rRNA</scp> transcripts in <scp>G</scp>erman grassland and forest soils. Environmental Microbiology, 2014, 16, 658-675.	3.8	103
61	Phosphorus and nitrogen physiology of two contrasting poplar genotypes when exposed to phosphorus and/or nitrogen starvation. Tree Physiology, 2016, 36, 22-38.	3.1	103
62	Differential stress responses of antioxidative systems to drought in pendunculate oak (Quercus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 Experimental Botany, 2001, 52, 133-143.	4.8	101
63	Antioxidants and Manganese Deficiency in Needles of Norway Spruce (<i>Picea abies</i> L.) Trees. Plant Physiology, 1992, 99, 1084-1089.	4.8	100
64	Field studies on Norway spruce trees at high altitudes: II. Defence systems against oxidative stress in needles. New Phytologist, 1992, 121, 635-642.	7.3	100
65	Combined activity of <i>LACS1</i> and <i>LACS4</i> is required for proper pollen coat formation in Arabidopsis. Plant Journal, 2011, 68, 715-726.	5.7	98
66	Class I KNOX transcription factors promote differentiation of cambial derivatives into xylem fibers in the <i>Arabidopsis</i> hypocotyl. Development (Cambridge), 2014, 141, 4311-4319.	2.5	97
67	FTIR-ATR spectroscopic analyses of changes in wood properties during particle- and fibreboard production of hard- and softwood trees. BioResources, 2009, 4, 49-71.	1.0	96
68	Mehler Reaction: Friend or Foe in Photosynthesis?. Botanica Acta, 1996, 109, 84-89.	1.6	94
69	Leaf photosynthesis, fluorescence response to salinity and the relevance to chloroplast salt compartmentation and anti-oxidative stress in two poplars. Trees - Structure and Function, 2007, 21, 581-591.	1.9	94
70	Attributing functions to ectomycorrhizal fungal identities in assemblages for nitrogen acquisition under stress. ISME Journal, 2014, 8, 321-330.	9.8	94
71	Specialisation and diversity of multiple trophic groups are promoted by different forest features. Ecology Letters, 2019, 22, 170-180.	6.4	92
72	Populus euphratica XTH overexpression enhances salinity tolerance by the development of leaf succulence in transgenic tobacco plants. Journal of Experimental Botany, 2013, 64, 4225-4238.	4.8	91

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73	Leaf litter production and decomposition in a poplar short-rotation coppice exposed to free air CO2 enrichment (POPFACE). Global Change Biology, 2005, 11, 971-982.	9.5	89
74	Intensive tropical land use massively shifts soil fungal communities. Scientific Reports, 2019, 9, 3403.	3.3	86
75	Engineering Drought Resistance in Forest Trees. Frontiers in Plant Science, 2018, 9, 1875.	3.6	86
76	Salt stress induces the formation of a novel type of â€˜pressure woodâ€™ in two <i>Populus</i> species. New Phytologist, 2012, 194, 129-141.	7.3	85
77	Influence of Environmental Pollution on Leaf Properties of Urban Plane Trees, Platanus orientalis L.. Bulletin of Environmental Contamination and Toxicology, 2010, 85, 251-255.	2.7	84
78	The Nitrate Transporter (NRT) Gene Family in Poplar. PLoS ONE, 2013, 8, e72126.	2.5	84
79	Divergent habitat filtering of root and soil fungal communities in temperate beech forests. Scientific Reports, 2016, 6, 31439.	3.3	84
80	The Influence of Apoplastic Ascorbate on the Activities of Cell Wall-Associated Peroxidase and NADH Oxidase in Needles of Norway Spruce (Picea abies L.). Plant and Cell Physiology, 1994, 35, 1231-1238.	3.1	79
81	Consequences of Air Pollution on Shoot-Root Interactions. Journal of Plant Physiology, 1996, 148, 296-301.	3.5	79
82	Characterisation of antioxidative systems in the ectomycorrhiza-building basidiomycete Paxillus involutus (Bartsch) Fr. and its reaction to cadmium. FEMS Microbiology Ecology, 2002, 42, 359-366.	2.7	78
83	Molecular characterization of PeNhaD1: the first member of the NhaD Na+/H+ antiporter family of plant origin. Plant Molecular Biology, 2005, 58, 75-88.	3.9	77
84	Effect of NaCl on photosynthesis, salt accumulation and ion compartmentation in two mangrove species, Kandelia candel and Bruguiera gymnorhiza. Aquatic Botany, 2008, 88, 303-310.	1.6	76
85	Mycorrhiza-Triggered Transcriptomic and Metabolomic Networks Impinge on Herbivore Fitness. Plant Physiology, 2018, 176, 2639-2656.	4.8	75
86	Reducing Fertilizer and Avoiding Herbicides in Oil Palm Plantationsâ€”Ecological and Economic Valuations. Frontiers in Forests and Global Change, 2019, 2, .	2.3	75
87	Beech carbon productivity as driver of ectomycorrhizal abundance and diversity. Plant, Cell and Environment, 2009, 32, 992-1003.	5.7	73
88	Anatomical, physiological and transcriptional responses of two contrasting poplar genotypes to drought and reâ€watering. Physiologia Plantarum, 2014, 151, 480-494.	5.2	72
89	Salt tolerance in Populus: Significance of stress signaling networks, mycorrhization, and soil amendments for cellular and whole-plant nutrition. Environmental and Experimental Botany, 2014, 107, 113-124.	4.2	72
90	Comparative transcriptomic analysis reveals the roles of overlapping heat-/drought-responsive genes in poplars exposed to high temperature and drought. Scientific Reports, 2017, 7, 43215.	3.3	72

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91	RNAi-mediated suppression of isoprene emission in poplar transiently impacts phenolic metabolism under high temperature and high light intensities: a transcriptomic and metabolomic analysis. Plant Molecular Biology, 2010, 74, 61-75.	3.9	71
92	<i>Paxillus involutus</i> Strains MAJ and NAU Mediate K+/Na+ Homeostasis in Ectomycorrhizal <i>Populus</i> Ã— <i>canescens</i> under Sodium Chloride Stress Â Â Â. Plant Physiology, 2012, 159, 1771-1786.	4.8	69
93	Influence of free air CO2 enrichment (EUROFACE) and nitrogen fertilisation on the anatomy of juvenile wood of three poplar species after coppicing. Trees - Structure and Function, 2005, 19, 109-118.	1.9	68
94	Salt stress affects xylem differentiation of grey poplar (PopulusÂÃ—Âcanescens). Planta, 2009, 229, 299-309.	3.2	68
95	Carbon-based secondary metabolites and internal nitrogen pools in Populus nigra under Free Air CO2 Enrichment (FACE) and nitrogen fertilisation. Plant and Soil, 2008, 304, 45-57.	3.7	66
96	Wood composition and energy content in a poplar short rotation plantation on fertilized agricultural land in a future CO₂ atmosphere. Global Change Biology, 2009, 15, 38-47.	9.5	66
97	Ectomycorrhizal fungal diversity increases phosphorus uptake efficiency of European beech. New Phytologist, 2018, 220, 1200-1210.	7.3	66
98	The slow rise of the flash-light-induced alkalization by Photosystem II of the suspending medium of thylakoids is reversibly related to thylakoid stacking. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 848, 257-264.	1.0	64
99	Interspecific temporal and spatial differences in the acquisition of litterâ€derived nitrogen by ectomycorrhizal fungal assemblages. New Phytologist, 2013, 199, 520-528.	7.3	63
100	Phosphorus availabilities in beech (Fagus sylvatica L.) forests impose habitat filtering on ectomycorrhizal communities and impact tree nutrition. Soil Biology and Biochemistry, 2016, 98, 127-137.	8.8	62
101	The Vascular Pathogen <i>Verticillium longisporum</i> Requires a Jasmonic Acid-Independent COI1 Function in Roots to Elicit Disease Symptoms in Arabidopsis Shoots Â. Plant Physiology, 2012, 159, 1192-1203.	4.8	61
102	Osmotic Stress and Ion-Specific Effects on Xylem Abscisic Acid and the Relevance to Salinity Tolerance in Poplar. Journal of Plant Growth Regulation, 2002, 21, 224-233.	5.1	60
103	Ectomycorrhiza and hydrogel protect hybrid poplar from water deficit and unravel plastic responses of xylem anatomy. Environmental and Experimental Botany, 2010, 69, 189-197.	4.2	59
104	Differential Effects of Elevated Ozone on Two Hybrid Aspen Genotypes Predisposed to Chronic Ozone Fumigation. Role of Ethylene and Salicylic Acid. Plant Physiology, 2003, 132, 196-205.	4.8	58
105	Heavy metal signalling in plants: linking cellular and organismic responses. Topics in Current Genetics, 0, , 187-215.	0.7	57
106	Forest Soil Phosphorus Resources and Fertilization Affect Ectomycorrhizal Community Composition, Beech P Uptake Efficiency, and Photosynthesis. Frontiers in Plant Science, 2018, 9, 463.	3.6	56
107	The ectomycorrhizal fungus (Paxillus involutus) modulates leaf physiology of poplar towards improved salt tolerance. Environmental and Experimental Botany, 2011, 72, 304-311.	4.2	55
108	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.	8.8	55

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109	Freezing tolerance in two Norway spruce (Picea abies [L.] Karst.) progenies is physiologically correlated with drought tolerance. Journal of Plant Physiology, 2005, 162, 549-558.	3.5	54
110	Temporal variations of phosphorus uptake by soil microbial biomass and young beech trees in two forest soils with contrasting phosphorus stocks. Soil Biology and Biochemistry, 2018, 117, 191-202.	8.8	54
111	Field studies on Norway spruce trees at high altitudes. I. Mineral, pigment and soluble protein contents of needles as affected by climate and pollution. New Phytologist, 1992, 121, 89-99.	7.3	53
112	Theory of proton flow along appressed thylakoid membranes under both non-stationary and stationary conditions. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 848, 265-273.	1.0	52
113	Ectomycorrhizal fungus (Paxillus involutus) and hydrogels affect performance of Populus euphratica exposed to drought stress. Annals of Forest Science, 2009, 66, 106-106.	2.0	52
114	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. Holzforschung, 2008, 62, 530-538.	1.9	51
115	Dynamics of phosphorus nutrition, allocation and growth of young beech (Fagus sylvatica L.) trees in P-rich and P-poor forest soil. Tree Physiology, 2018, 38, 37-51.	3.1	51
116	Increased nitrogen-use efficiency of a short-rotation poplar plantation in elevated CO2 concentration. Tree Physiology, 2007, 27, 1153-1163.	3.1	50
117	Manganese toxicity in two varieties of Douglas fir (Pseudotsuga menziesii var. viridis and glauca) seedlings as affected by phosphorus supply. Functional Plant Biology, 2007, 34, 31.	2.1	50
118	Isoprene emissionâ€free poplars â€“ a chance to reduce the impact from poplar plantations on the atmosphere. New Phytologist, 2012, 194, 70-82.	7.3	50
119	Quantitative trait loci affecting stomatal density and growth in a <i>Quercus robur</i> progeny: implications for the adaptation to changing environments. Global Change Biology, 2008, 14, 1934-1946.	9.5	48
120	Changes in carbon, nutrients and stoichiometric relations under different soil depths, plant tissues and ages in black locust plantations. Acta Physiologiae Plantarum, 2013, 35, 2951-2964.	2.1	48
121	Incorporation of plant carbon and microbial nitrogen into the rhizosphere food web of beech and ash. Soil Biology and Biochemistry, 2013, 62, 76-81.	8.8	48
122	Changes in Trophic Groups of Protists With Conversion of Rainforest Into Rubber and Oil Palm Plantations. Frontiers in Microbiology, 2019, 10, 240.	3.5	48
123	Ectomycorrhizal fungal diversity, tree diversity and root nutrient relations in a mixed Central European forest. Tree Physiology, 2011, 31, 531-538.	3.1	47
124	Nitrogen fertilization has differential effects on N allocation and lignin in two Populus species with contrasting ecology. Trees - Structure and Function, 2012, 26, 1933-1942.	1.9	46
125	Growing poplars for research with and without mycorrhizas. Frontiers in Plant Science, 2013, 4, 332.	3.6	46
126	Assembly processes of trophic guilds in the root mycobiome of temperate forests. Molecular Ecology, 2019, 28, 348-364.	3.9	46

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127	Interactive Effects of Elevated CO_2, Ozone and Drought Stress on the Activities of Antioxidative Enzymes in Needles of Norway Spruce Trees (Picea abies, [L] Karsten) Grown with Luxurious N-Supply. Journal of Plant Physiology, 1996, 148, 351-355.	3.5	45
128	Superoxide Dismutase Activity in Needles of Norwegian Spruce Trees (<i>Picea abies</i> L.). Plant Physiology, 1989, 90, 1310-1315.	4.8	44
129	GH3::GUS reflects cell-specific developmental patterns and stress-induced changes in wood anatomy in the poplar stem. Tree Physiology, 2008, 28, 1305-1315.	3.1	44
130	Temperature-induced lipocalin (TIL) is translocated under salt stress and protects chloroplasts from ion toxicity. Journal of Plant Physiology, 2014, 171, 250-259.	3.5	44
131	Phosphate uptake kinetics and tissue-specific transporter expression profiles in poplar (Populusâ€‰Ã—â€‰canescens) at different phosphorus availabilities. BMC Plant Biology, 2016, 16, 206.	3.6	44
132	Seasonal Fluctuations of Ascorbate-Related Enzymes: Acute and Delayed Effects of Late Frost in Spring on Antioxidative Systems in Needles of Norway Spruce (Picea abies L.). Plant and Cell Physiology, 1996, 37, 717-725.	3.1	43
133	Diurnal fluctuations of antioxidative systems in leaves of field-grown beech trees (Fagus sylvatica): Responses to light and temperature. Physiologia Plantarum, 2001, 111, 158-164.	5.2	43
134	Local Responses and Systemic Induced Resistance Mediated by Ectomycorrhizal Fungi. Frontiers in Plant Science, 2020, 11, 590063.	3.6	43
135	Climate Change Impairs Nitrogen Cycling in European Beech Forests. PLoS ONE, 2016, 11, e0158823.	2.5	42
136	Phenology, photosynthesis, and phosphorus in European beech (<i>Fagus sylvatica</i> L.) in two forest soils with contrasting P contents. Journal of Plant Nutrition and Soil Science, 2016, 179, 151-158.	1.9	42
137	Carbon partitioning to mobile and structural fractions in poplar wood under elevated CO_2 (EUROFACE) and N fertilization. Global Change Biology, 2006, 12, 272-283.	9.5	41
138	Harnessing salt for woody biomass production. Tree Physiology, 2012, 32, 1-3.	3.1	41
139	Nitrogen-driven stem elongation in poplar is linked with wood modification and gene clusters for stress, photosynthesis and cell wall formation. BMC Plant Biology, 2014, 14, 391.	3.6	41
140	Dissecting nutrient-related co-expression networks in phosphate starved poplars. PLoS ONE, 2017, 12, e0171958.	2.5	41
141	Root-induced tree species effects on the source/sink strength for greenhouse gases (CH_4, N_2O and) Tj ETQq1 1 0.784314 rgBT /Overlo	8.8	40
142	Intra-specific variations in expression of stress-related genes in beech progenies are stronger than drought-induced responses. Tree Physiology, 2014, 34, 1348-1361.	3.1	40
143	Ectomycorrhizal Colonization and Diversity in Relation to Tree Biomass and Nutrition in a Plantation of Transgenic Poplars with Modified Lignin Biosynthesis. PLoS ONE, 2013, 8, e59207.	2.5	40
144	Uptake and translocation of manganese in seedlings of two varieties of Douglas fir (Pseudotsuga) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.3	39

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145	Auxin is a long-range signal that acts independently of ethylene signaling on leaf abscission in Populus. Frontiers in Plant Science, 2015, 6, 634.	3.6	39
146	Volatile organic compound patterns predict fungal trophic mode and lifestyle. Communications Biology, 2021, 4, 673.	4.4	39
147	Protura are unique: first evidence of specialized feeding on ectomycorrhizal fungi in soil invertebrates. BMC Ecology, 2019, 19, 10.	3.0	38
148	Amelioration of nitrate uptake under salt stress by ectomycorrhiza with and without a Hartig net. New Phytologist, 2019, 222, 1951-1964.	7.3	38
149	Effect of magnesium-deficiency on antioxidative systems in needles of Norway spruce [Picea abies (L.) Karst.] grown with different ratios of nitrate and ammonium as nitrogen sources. New Phytologist, 1994, 128, 621-628.	7.3	37
150	Poplar nutrition under drought as affected by ectomycorrhizal colonization. Environmental and Experimental Botany, 2014, 108, 89-98.	4.2	37
151	Phylogenetic and functional traits of ectomycorrhizal assemblages in top soil from different biogeographic regions and forest types. Mycorrhiza, 2017, 27, 233-245.	2.8	37
152	Protection from oxidative stress in transgenic plants. Biochemical Society Transactions, 1994, 22, 936-940.	3.4	36
153	Ectomycorrhiza affect architecture and nitrogen partitioning of beech (Fagus sylvatica L.) seedlings under shade and drought. Environmental and Experimental Botany, 2013, 87, 207-217.	4.2	36
154	Biomass traits and candidate genes for bioenergy revealed through association genetics in coppiced European Populus nigra (L.). Biotechnology for Biofuels, 2016, 9, 195.	6.2	36
155	Degradation of Root Community Traits as Indicator for Transformation of Tropical Lowland Rain Forests into Oil Palm and Rubber Plantations. PLoS ONE, 2015, 10, e0138077.	2.5	36
156	Early drought-induced changes to the needle proteome of Norway spruce. Tree Physiology, 2007, 27, 1423-1431.	3.1	35
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