

# Arthur Gessler

## List of Publications by Year in descending order

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Version: 2024-02-01

253  
papers

16,148  
citations

12330

69  
h-index

23533

111  
g-index

264  
all docs

264  
docs citations

264  
times ranked

13695  
citing authors

#	ARTICLE	IF	CITATIONS
1	A multi-species synthesis of physiological mechanisms in drought-induced tree mortality. <i>Nature Ecology and Evolution</i> , 2017, 1, 1285-1291.	7.8	739
2	Physiological Responses of Forest Trees to Heat and Drought. <i>Plant Biology</i> , 2006, 8, 556-571.	3.8	379
3	Stable isotopes in tree rings: towards a mechanistic understanding of isotope fractionation and mixing processes from the leaves to the wood. <i>Tree Physiology</i> , 2014, 34, 796-818.	3.1	359
4	Research frontiers for improving our understanding of drought-induced tree and forest mortality. <i>New Phytologist</i> , 2018, 218, 15-28.	7.3	334
5	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. <i>Basic and Applied Ecology</i> , 2017, 23, 1-73.	2.7	307
6	Carbon allocation and carbon isotope fluxes in the plant-soil-atmosphere continuum: a review. <i>Biogeosciences</i> , 2011, 8, 3457-3489.	3.3	289
7	Drought effects on allocation of recent carbon: from beech leaves to soil CO <sub>2</sub> efflux. <i>New Phytologist</i> , 2009, 184, 950-961.	7.3	280
8	Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. <i>New Phytologist</i> , 2021, 232, 1123-1158.	7.3	277
9	Field and laboratory experiments on net uptake of nitrate and ammonium by the roots of spruce ( <i>Picea</i> ). <i>Tree Physiology</i> , 2010, 30, 1221-1234.	3.1	275
10	The role of nutrients in drought-induced tree mortality and recovery. <i>New Phytologist</i> , 2017, 214, 513-520.	7.3	252
11	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. <i>Ecology Letters</i> , 2017, 20, 1414-1426.	6.4	244
12	Nitrogen balance in forest soils: nutritional limitation of plants under climate change stresses. <i>Plant Biology</i> , 2009, 11, 4-23.	3.8	233
13	Global climate change and tree nutrition: influence of water availability. <i>Tree Physiology</i> , 2010, 30, 1221-1234.	3.1	233
14	Tree diversity does not always improve resistance of forest ecosystems to drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14812-14815.	7.1	228
15	Pulse-labelling trees to study carbon allocation dynamics: a review of methods, current knowledge and future prospects. <i>Tree Physiology</i> , 2012, 32, 776-798.	3.1	223
16	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. <i>New Phytologist</i> , 2021, 232, 973-1122.	7.3	216
17	Tracing carbon and oxygen isotope signals from newly assimilated sugars in the leaves to the tree-ring archive. <i>Plant, Cell and Environment</i> , 2009, 32, 780-795.	5.7	207
18	Biotic homogenization can decrease landscape-scale forest multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3557-3562.	7.1	196

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19	Jack-of-all-trades effects drive biodiversityâ€ecosystem multifunctionality relationships in European forests. <i>Nature Communications</i> , 2016, 7, 11109.	12.8	185
20	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013, 15, 281-291.	2.7	179
21	Seasonal transfer of oxygen isotopes from precipitation and soil to the tree ring: source water versus needle water enrichment. <i>New Phytologist</i> , 2014, 202, 772-783.	7.3	171
22	Recovery of trees from drought depends on belowground sink control. <i>Nature Plants</i> , 2016, 2, 16111.	9.3	170
23	Long-term study of root biomass in a biodiversity experiment reveals shifts in diversity effects over time. <i>Oikos</i> , 2014, 123, 1528-1536.	2.7	165
24	Contrasting resistance and resilience to extreme drought and late spring frost in five major European tree species. <i>Global Change Biology</i> , 2019, 25, 3781-3792.	9.5	152
25	Stable Isotope Composition of Organic Compounds Transported in the Phloem of European Beech â€ Evaluation of Different Methods of Phloem Sap Collection and Assessment of Gradients in Carbon Isotope Composition during Leafâ€toâ€Stem Transport. <i>Plant Biology</i> , 2004, 6, 721-729.	3.8	150
26	High-resolution isotope measurements resolve rapid ecohydrological dynamics at the soilâ€plant interface. <i>New Phytologist</i> , 2016, 210, 839-849.	7.3	149
27	Soluble N compounds in trees exposed to high loads of N: a comparison of spruce ( <i>Picea abies</i> ) and beech ( <i>Fagus sylvatica</i> ) grown under field conditions. <i>New Phytologist</i> , 1996, 134, 103-114.	7.3	142
28	Temporal dynamics of the carbon isotope composition in a <i>Pinus sylvestris</i> stand: from newly assimilated organic carbon to respired carbon dioxide. <i>Oecologia</i> , 2008, 156, 737-750.	2.0	140
29	Progress and challenges in using stable isotopes to trace plant carbon and water relations across scales. <i>Biogeosciences</i> , 2012, 9, 3083-3111.	3.3	138
30	The long way down--are carbon and oxygen isotope signals in the tree ring uncoupled from canopy physiological processes?. <i>Tree Physiology</i> , 2011, 31, 1088-1102.	3.1	137
31	Short-term variation in the isotopic composition of organic matter allocated from the leaves to the stem of <i>Pinus sylvestris</i> : effects of photosynthetic and postphotosynthetic carbon isotope fractionation. <i>Global Change Biology</i> , 2006, 12, 1922-1939.	9.5	133
32	Experimental evidence for diel variations of the carbon isotope composition in leaf, stem and phloem sap organic matter in <i>Ricinus communis</i> . <i>Plant, Cell and Environment</i> , 2008, 31, 941-953.	5.7	130
33	Plant Sulfite Oxidase as Novel Producer of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Biological Chemistry</i> , 2006, 281, 6884-6888.	3.4	128
34	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, 1831-1841.	3.1	126
35	On the metabolic origin of the carbon isotope composition of CO <sub>2</sub> evolved from darkened light-acclimated leaves in <i>Ricinus communis</i> . <i>New Phytologist</i> , 2009, 181, 374-386.	7.3	125
36	Drought affects the competitive interactions between <i>Fagus sylvatica</i> seedlings and an early successional species, <i>Rubus fruticosus</i> : responses of growth, water status and delta <sup>13</sup> C composition. <i>New Phytologist</i> , 2001, 151, 427-435.	7.3	121

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37	Photosynthetic carbon isotope discrimination and its relationship to the carbon isotope signals of stem, soil and ecosystem respiration. <i>New Phytologist</i> , 2010, 188, 576-589.	7.3	119
38	Soluble N compounds in trees exposed to high loads of N: a comparison between the roots of Norway spruce ( <i>Picea abies</i> ) and beech ( <i>Fagus sylvatica</i> ) trees grown under field conditions. <i>New Phytologist</i> , 1998, 138, 385-399.	7.3	115
39	$\delta^{13}\text{C}$ of organic matter transported from the leaves to the roots in <i>Eucalyptus delegatensis</i> : short-term variations and relation to respired CO <sub>2</sub> . <i>Functional Plant Biology</i> , 2007, 34, 692.	2.1	113
40	The effect of drought on C and N stable isotopes in different fractions of leaves, stems and roots of sensitive and tolerant beech ecotypes. <i>Plant, Cell and Environment</i> , 2006, 29, 823-835.	5.7	109
41	Growth and resilience responses of Scots pine to extreme droughts across Europe depend on predrought growth conditions. <i>Global Change Biology</i> , 2020, 26, 4521-4537.	9.5	105
42	Carbon isotopic composition and oxygen isotopic enrichment in phloem and total leaf organic matter of European beech ( <i>Fagus sylvatica</i> L.) along a climate gradient. <i>Plant, Cell and Environment</i> , 2006, 29, 1492-1507.	5.7	104
43	Nitrogen deposition is the most important environmental driver of growth of pure, even-aged and managed European forests. <i>Forest Ecology and Management</i> , 2020, 458, 117762.	3.2	102
44	Nitrogen uptake and metabolism in <i>Populus trichocarpa</i> affected by salinity. <i>New Phytologist</i> , 2007, 173, 279-293.	7.3	100
45	Consequences of N Deposition to Forest Ecosystems - Recent Results and Future Research Needs. <i>Water, Air, and Soil Pollution</i> , 1999, 116, 47-64.	2.4	99
46	Interaction of nitrogen nutrition and salinity in Grey poplar ( <i>Populus tremula</i> L. × <i>Populus alba</i> ). <i>Plant, Cell and Environment</i> , 2007, 30, 796-811.	5.7	99
47	Water Shortage Affects the Water and Nitrogen Balance in Central European Beech Forests. <i>Plant Biology</i> , 2004, 6, 289-298.	3.8	98
48	Why trees grow at night. <i>New Phytologist</i> , 2021, 231, 2174-2185.	7.3	98
49	The fate of recently fixed carbon after drought release: towards unravelling C storage regulation in <i>Tilia platyphyllos</i> and <i>Pinus sylvestris</i> . <i>Plant, Cell and Environment</i> , 2017, 40, 1711-1724.	5.7	96
50	Improvement of water and light availability after thinning at a xeric site: which matters more? A dual isotope approach. <i>New Phytologist</i> , 2016, 210, 108-121.	7.3	95
51	Does Drought Influence the Relationship Between Biodiversity and Ecosystem Functioning in Boreal Forests?. <i>Ecosystems</i> , 2014, 17, 394-404.	3.4	94
52	Functional diversity of leaf nitrogen concentrations drives grassland carbon fluxes. <i>Ecology Letters</i> , 2014, 17, 435-444.	6.4	94
53	Depth matters: effects of precipitation regime on soil microbial activity upon rewetting of a plant-soil system. <i>ISME Journal</i> , 2018, 12, 1061-1071.	9.8	94
54	The high-affinity poplar ammonium importer PttAMT1.2 and its role in ectomycorrhizal symbiosis. <i>New Phytologist</i> , 2005, 168, 697-706.	7.3	93

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55	Diel variations in the carbon isotope composition of respired CO <sub>2</sub> and associated carbon sources: a review of dynamics and mechanisms. <i>Biogeosciences</i> , 2011, 8, 2437-2459.	3.3	93
56	Regulation of nitrate uptake at the whole-tree level: interaction between nitrogen compounds, cytokinins and carbon metabolism. <i>Tree Physiology</i> , 2004, 24, 1313-1321.	3.1	91
57	Chemolithoautotrophic Nitrifiers in the Phyllosphere of a Spruce Ecosystem Receiving High Atmospheric Nitrogen Input. <i>Current Microbiology</i> , 2002, 44, 56-60.	2.2	90
58	NH <sub>3</sub> and NO <sub>2</sub> fluxes between beech trees and the atmosphere – correlation with climatic and physiological parameters. <i>New Phytologist</i> , 2000, 147, 539-560.	7.3	88
59	The oxygen isotope enrichment of leaf-exported assimilates – does it always reflect lamina leaf water enrichment?. <i>New Phytologist</i> , 2013, 200, 144-157.	7.3	86
60	Processes driving nocturnal transpiration and implications for estimating land evapotranspiration. <i>Scientific Reports</i> , 2015, 5, 10975.	3.3	85
61	Evaporative enrichment and time lags between <sup>18</sup> O of leaf water and organic pools in a pine stand. <i>Plant, Cell and Environment</i> , 2007, 30, 539-550.	5.7	84
62	Assessing environmental and physiological controls over water relations in a Scots pine ( <i>Pinus</i> ) stand. <i>Plant, Cell and Environment</i> , 2007, 30, 113-127.	5.7	83
63	Drought induced tree mortality – a tree-ring isotope based conceptual model to assess mechanisms and predispositions. <i>New Phytologist</i> , 2018, 219, 485-490.	7.3	82
64	The δ <sup>13</sup> C effect on leaf water enrichment correlates with leaf hydraulic conductance and mesophyll conductance for CO <sub>2</sub> . <i>Plant, Cell and Environment</i> , 2012, 35, 611-625.	5.7	79
65	The way back: recovery of trees from drought and its implication for acclimation. <i>New Phytologist</i> , 2020, 228, 1704-1709.	7.3	79
66	Metabolite profiling of the moss <i>Physcomitrella patens</i> reveals evolutionary conservation of osmoprotective substances. <i>Plant Cell Reports</i> , 2012, 31, 427-436.	5.6	78
67	A method for <i>in situ</i> monitoring of the isotope composition of tree xylem water using laser spectroscopy. <i>Plant, Cell and Environment</i> , 2016, 39, 2055-2063.	5.7	77
68	Preparation of starch and soluble sugars of plant material for the analysis of carbon isotope composition: a comparison of methods. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2476-2488.	1.5	76
69	Drought responses by individual tree species are not often correlated with tree species diversity in European forests. <i>Journal of Applied Ecology</i> , 2016, 53, 1725-1734.	4.0	76
70	Below-ground complementarity effects in a grassland biodiversity experiment are related to deep-rooting species. <i>Journal of Ecology</i> , 2018, 106, 265-277.	4.0	76
71	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , 2018, 21, 31-42.	6.4	74
72	When a Tree Dies in the Forest: Scaling Climate-Driven Tree Mortality to Ecosystem Water and Carbon Fluxes. <i>Ecosystems</i> , 2016, 19, 1133-1147.	3.4	73

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73	Importance of tree height and social position for drought-related stress on tree growth and mortality. <i>Trees - Structure and Function</i> , 2016, 30, 1467-1482.	1.9	73
74	Responses of sapwood ray parenchyma and non-structural carbohydrates of <i>Pinus sylvestris</i> to drought and long-term irrigation. <i>Functional Ecology</i> , 2017, 31, 1371-1382.	3.6	70
75	A one-dimensional model of water flow in soil-plant systems based on plant architecture. <i>Plant and Soil</i> , 2011, 341, 233-256.	3.7	69
76	Impact of interspecific interactions on the soil water uptake depth in a young temperate mixed species plantation. <i>Journal of Hydrology</i> , 2014, 519, 3511-3519.	5.4	66
77	Oxygen isotope enrichment of organic matter in <i>Ricinus communis</i> during the diel course and as affected by assimilate transport. <i>New Phytologist</i> , 2007, 174, 600-613.	7.3	65
78	Homeostatic levels of nonstructural carbohydrates after 13Âyr of drought and irrigation in <i>Pinus sylvestris</i> . <i>New Phytologist</i> , 2018, 219, 1314-1324.	7.3	65
79	Interspecific competition influences the response of oak transpiration to increasing drought stress in a mixed Mediterranean forest. <i>Forest Ecology and Management</i> , 2014, 318, 54-61.	3.2	64
80	Growth resistance and resilience of mixed silver fir and Norway spruce forests in central Europe: Contrasting responses to mild and severe droughts. <i>Global Change Biology</i> , 2021, 27, 4403-4419.	9.5	64
81	Forest tree growth is linked to mycorrhizal fungal composition and function across Europe. <i>ISME Journal</i> , 2022, 16, 1327-1336.	9.8	62
82	Climate sensitivity and drought seasonality determine post-drought growth recovery of <i>Quercus petraea</i> and <i>Quercus robur</i> in Europe. <i>Science of the Total Environment</i> , 2021, 784, 147222.	8.0	61
83	Impact of interspecific competition and drought on the allocation of new assimilates in trees. <i>Plant Biology</i> , 2016, 18, 785-796.	3.8	60
84	Nitrogen nutrition of beech forests in a changing climate: importance of plant-soil-microbe water, carbon, and nitrogen interactions. <i>Plant and Soil</i> , 2017, 418, 89-114.	3.7	58
85	Identifying the tree species compositions that maximize ecosystem functioning in European forests. <i>Journal of Applied Ecology</i> , 2019, 56, 733-744.	4.0	58
86	Number of growth days and not length of the growth period determines radial stem growth of temperate trees. <i>Ecology Letters</i> , 2022, 25, 427-439.	6.4	58
87	Norway spruce physiological and anatomical predisposition to dieback. <i>Forest Ecology and Management</i> , 2014, 322, 27-36.	3.2	57
88	Plant diversity shapes microbial rhizosphere effects on P mobilisation from organic matter in soil. <i>Ecology Letters</i> , 2015, 18, 1356-1365.	6.4	57
89	Patterns of mast fruiting of common beech, sessile and common oak, Norway spruce and Scots pine in Central and Northern Europe. <i>Forest Ecology and Management</i> , 2016, 363, 237-251.	3.2	57
90	Woody clockworks: circadian regulation of nighttime water use in <i>Eucalyptus globulus</i> . <i>New Phytologist</i> , 2013, 200, 743-752.	7.3	56

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91	Towards an Integrative, Eco-Evolutionary Understanding of Ecological Novelty: Studying and Communicating Interlinked Effects of Global Change. <i>BioScience</i> , 2019, 69, 888-899.	4.9	55
92	Seasonal photosynthetic response of European beech to severe summer drought: Limitation, recovery and post-drought stimulation. <i>Agricultural and Forest Meteorology</i> , 2016, 220, 83-89.	4.8	54
93	High carbon storage in carbon-limited trees. <i>New Phytologist</i> , 2019, 222, 171-182.	7.3	54
94	Assessing the response of forest productivity to climate extremes in Switzerland using model-data fusion. <i>Global Change Biology</i> , 2020, 26, 2463-2476.	9.5	54
95	Below-ground resource partitioning alone cannot explain the biodiversity-ecosystem function relationship: A field test using multiple tracers. <i>Journal of Ecology</i> , 2018, 106, 2002-2018.	4.0	53
96	Pervasive decreases in living vegetation carbon turnover time across forest climate zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24662-24667.	7.1	52
97	Determinants of legacy effects in pine trees - implications from an irrigation-stop experiment. <i>New Phytologist</i> , 2020, 227, 1081-1096.	7.3	52
98	Tree vitality indicators revealed a rapid response of beech forests to the 2018 drought. <i>Ecological Indicators</i> , 2021, 120, 106903.	6.3	52
99	Forest understory plant and soil microbial response to an experimentally induced drought and heat-pulse event: the importance of maintaining the continuum. <i>Global Change Biology</i> , 2016, 22, 2861-2874.	9.5	51
100	Dynamic niche partitioning in root water uptake facilitates efficient water use in more diverse grassland plant communities. <i>Functional Ecology</i> , 2018, 32, 214-227.	3.6	51
101	Drought reduces water uptake in beech from the drying topsoil, but no compensatory uptake occurs from deeper soil layers. <i>New Phytologist</i> , 2022, 233, 194-206.	7.3	51
102	Effect of water availability on leaf water isotopic enrichment in beech seedlings shows limitations of current fractionation models. <i>Plant, Cell and Environment</i> , 2009, 32, 1285-1296.	5.7	50
103	Impact of weather cues and resource dynamics on mast occurrence in the main forest tree species in Europe. <i>Forest Ecology and Management</i> , 2018, 429, 336-350.	3.2	50
104	Rhizosphere activity in an old-growth forest reacts rapidly to changes in soil moisture and shapes whole-tree carbon allocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24885-24892.	7.1	50
105	Drought effects on root and needle terpenoid content of a coastal and an interior Douglas fir provenance. <i>Tree Physiology</i> , 2017, 37, 1648-1658.	3.1	49
106	Turnover time of the non-structural carbohydrate pool influences $\delta^{13}C$ of leaf cellulose. <i>Plant, Cell and Environment</i> , 2014, 37, 2500-2507.	5.7	48
107	Ozone effects on European forest growth - Towards an integrative approach. <i>Journal of Ecology</i> , 2018, 106, 1377-1389.	4.0	48
108	Chilled to be forced: the best dose to wake up buds from winter dormancy. <i>New Phytologist</i> , 2021, 230, 1366-1377.	7.3	47

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109	The effect of <sup>18</sup> O-labelled water vapour on the oxygen isotope ratio of water and assimilates in plants at high humidity. <i>New Phytologist</i> , 2018, 217, 105-116.	7.3	45
110	Differences in C metabolism of ash species and provenances as a consequence of root oxygen deprivation by waterlogging. <i>Journal of Experimental Botany</i> , 2009, 60, 4335-4345.	4.8	44
111	Metabolic fluxes, carbon isotope fractionation and respiration – lessons to be learned from plant biochemistry. <i>New Phytologist</i> , 2011, 191, 10-15.	7.3	44
112	Drought response of mesophyll conductance in forest understory species - impacts on water-use efficiency and interactions with leaf water movement. <i>Physiologia Plantarum</i> , 2014, 152, 98-114.	5.2	44
113	Bidirectional exchange of amino compounds between phloem and xylem during long-distance transport in Norway spruce trees ( <i>Picea abies</i> [L.] Karst). <i>Journal of Experimental Botany</i> , 2003, 54, 1389-1397.	4.8	42
114	Exogenous supply of glutamine and active cytokinin to the roots reduces NO <sub>3</sub> - uptake rates in poplar. <i>Plant, Cell and Environment</i> , 2006, 29, 1284-1297.	5.7	42
115	Water fluxes within beech stands in complex terrain. <i>International Journal of Biometeorology</i> , 2010, 54, 23-36.	3.0	42
116	The influence of tree species mixture on ecosystem-level carbon accumulation and water use in a mixed boreal plantation. <i>Forest Ecology and Management</i> , 2013, 298, 82-92.	3.2	42
117	Circadian regulation of photosynthesis and transpiration from genes to ecosystems. <i>Environmental and Experimental Botany</i> , 2018, 152, 37-48.	4.2	42
118	Effects of Long-Term Free-Air Ozone Fumigation on <sup>15</sup> N and Total N in <i>Fagus sylvatica</i> and Associated Mycorrhizal Fungi. <i>Plant Biology</i> , 2007, 9, 242-252.	3.8	41
119	Plant species richness negatively affects root decomposition in grasslands. <i>Journal of Ecology</i> , 2017, 105, 209-218.	4.0	41
120	Genotypic variability enhances the reproducibility of an ecological study. <i>Nature Ecology and Evolution</i> , 2018, 2, 279-287.	7.8	41
121	Water level changes affect carbon turnover and microbial community composition in lake sediments. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw035.	2.7	39
122	Irradiance and temperature affect the competitive interference of blackberry on the physiology of European beech seedlings. <i>New Phytologist</i> , 2005, 165, 453-462.	7.3	38
123	Application of <sup>13</sup> C and <sup>15</sup> N isotopic signatures of organic matter fractions sequentially separated from adjacent arable and forest soils to identify carbon stabilization mechanisms. <i>Biogeosciences</i> , 2011, 8, 2895-2906.	3.3	38
124	Interactions of thinning and stem height on the drought response of radial stem growth and isotopic composition of Norway spruce ( <i>Picea abies</i> ). <i>Tree Physiology</i> , 2012, 32, 1199-1213.	3.1	38
125	Soil Bacterial Community Structure Responses to Precipitation Reduction and Forest Management in Forest Ecosystems across Germany. <i>PLoS ONE</i> , 2015, 10, e0122539.	2.5	38
126	The fate and age of carbon – insights into the storage and remobilization dynamics in trees. <i>New Phytologist</i> , 2016, 209, 1338-1340.	7.3	37



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127	Mutually inclusive mechanisms of drought-induced tree mortality. <i>Global Change Biology</i> , 2022, 28, 3365-3378.	9.5	37
128	Drought in forest understory ecosystems – a novel rainfall reduction experiment. <i>Biogeosciences</i> , 2015, 12, 961-975.	3.3	36
129	Influence of species interactions on transpiration of Mediterranean tree species during a summer drought. <i>European Journal of Forest Research</i> , 2015, 134, 365-376.	2.5	35
130	Physiological significance of forest tree defoliation: Results from a survey in a mixed forest in Tuscany (central Italy). <i>Forest Ecology and Management</i> , 2016, 361, 170-178.	3.2	35
131	Carbon stable isotope ratio of phloem sugars in mature pine trees throughout the growing season: comparison of two extraction methods. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2511-2518.	1.5	34
132	Effects of drought on leaf carbon source and growth of European beech are modulated by soil type. <i>Scientific Reports</i> , 2017, 7, 42462.	3.3	34
133	Within-canopy and ozone fumigation effects on $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ in adult beech ( <i>Fagus sylvatica</i> ) trees: relation to meteorological and gas exchange parameters. <i>Tree Physiology</i> , 2009, 29, 1349-1365.	3.1	33
134	Tree ring isotopic composition, radial increment and height growth reveal provenance-specific reactions of Douglas-fir towards environmental parameters. <i>Trees - Structure and Function</i> , 2013, 27, 37-52.	1.9	33
135	The importance of landscape diversity for carbon fluxes at the landscape level: small-scale heterogeneity matters. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 601-617.	6.5	32
136	Plasticity of Fine-Root Traits Under Long-Term Irrigation of a Water-Limited Scots Pine Forest. <i>Frontiers in Plant Science</i> , 2019, 10, 701.	3.6	32
137	Drought alters the carbon footprint of trees in soils – tracking the spatio-temporal fate of $^{13}\text{C}$ -labelled assimilates in the soil of an old-growth pine forest. <i>Global Change Biology</i> , 2021, 27, 2491-2506.	9.5	32
138	Physiological Performance of Beech ( <i>Fagus sylvatica</i> L.) at its Southeastern Distribution Limit in Europe: Seasonal Changes in Nitrogen, Carbon and Water Balance. <i>Plant Biology</i> , 2006, 8, 52-63.	3.8	31
139	Phloem flow and sugar transport in <i>Robinia pseudoacacia</i> is inhibited under anoxic conditions of shoot or roots. <i>Plant, Cell and Environment</i> , 2015, 38, 433-447.	5.7	31
140	Circadian rhythms have significant effects on leaf-to-canopy scale gas exchange under field conditions. <i>GigaScience</i> , 2016, 5, 43.	6.4	31
141	Stomatal conductance and intrinsic water use efficiency in the drought year 2003: a case study of European beech. <i>Trees - Structure and Function</i> , 2016, 30, 153-174.	1.9	31
142	The influence of the soil on spring and autumn phenology in European beech. <i>Tree Physiology</i> , 2016, 36, 78-85.	3.1	30
143	Metabolic responses of Norway spruce ( <i>Picea abies</i> ) trees to long-term forest management practices and acute $(\text{NH}_4)_2\text{SO}_4$ fertilization: transport of soluble non-protein nitrogen compounds in xylem and phloem. <i>New Phytologist</i> , 1998, 140, 461-475.	7.3	30
144	Using amino-nitrogen pools and fluxes to identify contributions of understory <i>Acacia</i> spp. to overstory <i>Eucalyptus regnans</i> and stand nitrogen uptake in temperate Australia. <i>New Phytologist</i> , 2009, 183, 1097-1113.	7.3	29

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146	What is the speed of link between aboveground and belowground processes?. <i>New Phytologist</i> , 2010, 187, 885-888.	7.3	28
147	Land-use and hydroperiod affect kettle hole sediment carbon and nitrogen biogeochemistry. <i>Science of the Total Environment</i> , 2017, 574, 46-56.	8.0	28
148	Soil nutrients and lowered source:sink ratio mitigate effects of mild but not of extreme drought in trees. <i>Environmental and Experimental Botany</i> , 2020, 169, 103905.	4.2	28
149	Memory of environmental conditions across generations affects the acclimation potential of scots pine. <i>Plant, Cell and Environment</i> , 2020, 43, 1288-1299.	5.7	28
150	Soil nutrient availability alters tree carbon allocation dynamics during drought. <i>Tree Physiology</i> , 2021, 41, 697-707.	3.1	28
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152	A coastal and an interior Douglas fir provenance exhibit different metabolic strategies to deal with drought stress. <i>Tree Physiology</i> , 2016, 36, tpv105.	3.1	27
153	Thinning effect on photosynthesis depends on needle ages in a Chinese fir ( <i>Cunninghamia lanceolata</i> ) plantation. <i>Science of the Total Environment</i> , 2017, 580, 900-906.	8.0	27
154	The <sup>18</sup> O signal transfer from water vapour to leaf water and assimilates varies among plant species and growth forms. <i>Plant, Cell and Environment</i> , 2020, 43, 510-523.	5.7	27
155	Effects of mistletoe removal on growth, N and C reserves, and carbon and oxygen isotope composition in Scots pine hosts. <i>Tree Physiology</i> , 2016, 36, 562-575.	3.1	26
156	Endogenous circadian rhythms in pigment composition induce changes in photochemical efficiency in plant canopies. <i>Plant, Cell and Environment</i> , 2017, 40, 1153-1162.	5.7	26
157	Intramolecular <sup>13</sup> C analysis of tree rings provides multiple plant ecophysiology signals covering decades. <i>Scientific Reports</i> , 2018, 8, 5048.	3.3	26
158	Long-Distance Transport and Plant Internal Cycling of N- and S-Compounds. <i>Progress in Botany Fortschritte Der Botanik</i> , 2012, , 161-188.	0.3	26
159	Plant functional diversity increases grassland productivity-related water vapor fluxes: an Ecotron and modeling approach. <i>Ecology</i> , 2016, 97, 2044-2054.	3.2	25
160	Coordinating supply and demand: plant carbon allocation strategy ensuring survival in the long run. <i>New Phytologist</i> , 2019, 222, 5-7.	7.3	25
161	Drone-based physiological index reveals long-term acclimation and drought stress responses in trees. <i>Plant, Cell and Environment</i> , 2021, 44, 3552-3570.	5.7	25
162	Organic matter distribution and retention along transects from hilltop to kettle hole within an agricultural landscape. <i>Biogeochemistry</i> , 2017, 136, 47-70.	3.5	24

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164	Defoliation estimation of forest trees from ground-level images. <i>Remote Sensing of Environment</i> , 2019, 223, 143-153.	11.0	23
165	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> , 2010, 37, 879.	2.1	22
166	Hydrogen isotopic differences between C <sub>3</sub> and C <sub>4</sub> land plant lipids: consequences of compartmentation in C <sub>4</sub> photosynthetic chemistry and C <sub>3</sub> photorespiration. <i>Plant, Cell and Environment</i> , 2016, 39, 2676-2690.	5.7	22
167	Integrating Aquatic and Terrestrial Perspectives to Improve Insights Into Organic Matter Cycling at the Landscape Scale. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	22
168	Ecosystem functioning in urban grasslands: The role of biodiversity, plant invasions and urbanization. <i>PLoS ONE</i> , 2019, 14, e0225438.	2.5	22
169	Drought effects on carbon allocation to resin defences and on resin dynamics in old-grown Scots pine. <i>Environmental and Experimental Botany</i> , 2021, 185, 104410.	4.2	22
170	Tree growth in Switzerland is increasingly constrained by rising evaporative demand. <i>Journal of Ecology</i> , 2021, 109, 2981-2990.	4.0	22
171	Douglas-Fir Seedlings Exhibit Metabolic Responses to Increased Temperature and Atmospheric Drought. <i>PLoS ONE</i> , 2014, 9, e114165.	2.5	21
172	Elevated temperature differently affects foliar nitrogen partitioning in seedlings of diverse Douglas fir provenances. <i>Tree Physiology</i> , 2014, 34, 1090-1101.	3.1	21
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174	A high-temperature water vapor equilibration method to determine non-exchangeable hydrogen isotope ratios of sugar, starch and cellulose. <i>Plant, Cell and Environment</i> , 2022, 45, 12-22.	5.7	21
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176	Structural and anatomical responses of <i>Pinus sylvestris</i> and <i>Tilia platyphyllos</i> seedlings exposed to water shortage. <i>Trees - Structure and Function</i> , 2018, 32, 1211-1218.	1.9	20
177	Experimental evidence for diel <sup>15</sup> N patterns in different tissues, xylem and phloem saps of castor bean ( <i>Ricinus communis</i> L.). <i>Plant, Cell and Environment</i> , 2013, 36, 2219-2228.	5.7	19
178	Tree diversity affects chlorophyll fluorescence and other leaf traits of tree species in a boreal forest. <i>Tree Physiology</i> , 2017, 37, 199-208.	3.1	19
179	Detecting the fingerprint of drought across Europe's forests: do carbon isotope ratios and stem growth rates tell similar stories?. <i>Forest Ecosystems</i> , 2017, 4, .	3.1	19
180	Root carbon and nutrient homeostasis determines downy oak sapling survival and recovery from drought. <i>Tree Physiology</i> , 2021, 41, 1400-1412.	3.1	19

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182	Effects of drought on nitrogen uptake and carbon dynamics in trees. <i>Tree Physiology</i> , 2021, 41, 927-943.	3.1	18
183	Comparison of the performance of three different ecophysiological life forms in a sandy coastal restinga ecosystem of SE-Brazil: a nodulated N <sub>2</sub> -fixing C <sub>3</sub> -shrub ( <i>Andira legalis</i> (Vell.) Toledo), a CAM-shrub ( <i>Clusia hilariana</i> Schtdl.) and a tap root C <sub>3</sub> -hemicyptophyte ( <i>Allagoptera arenaria</i> ) <i>Tj ETQq1 1 0.784314rgBT /Overlock 10</i>	1.9	17
184	Short-term dynamics of the carbon isotope composition of CO <sub>2</sub> emitted from a wheat agroecosystem – physiological and environmental controls. <i>Plant Biology</i> , 2011, 13, 115-125.	3.8	17
185	Visualizing land-use and management complexity within biogeochemical cycles of an agricultural landscape. <i>Ecosphere</i> , 2016, 7, e01282.	2.2	17
186	Influence of starch deficiency on photosynthetic and post-photosynthetic carbon isotope fractionations. <i>Journal of Experimental Botany</i> , 2019, 70, 1829-1841.	4.8	17
187	Tree allocation dynamics beyond heat and hot drought stress reveal changes in carbon storage, belowground translocation and growth. <i>New Phytologist</i> , 2022, 233, 687-704.	7.3	17
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192	Intraspecific differences in responses to rainshelter-induced drought and competition of <i>Fagus sylvatica</i> L. across Germany. <i>Forest Ecology and Management</i> , 2014, 330, 283-293.	3.2	15
193	Short-Term Response of Soil Respiration to Addition of Chars: Impact of Fermentation Post-Processing and Mineral Nitrogen. <i>Pedosphere</i> , 2015, 25, 761-769.	4.0	15
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195	Lessons learned from a long-term irrigation experiment in a dry Scots pine forest: Impacts on traits and functioning. <i>Ecological Monographs</i> , 2022, 92, e1507.	5.4	15
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197	Variation in short-term and long-term responses of photosynthesis and isoprenoid-mediated photoprotection to soil water availability in four Douglas-fir provenances. <i>Scientific Reports</i> , 2017, 7, 40145.	3.3	14
198	The biogeochemical niche shifts of <i>Pinus sylvestris</i> var. <i>mongolica</i> along an environmental gradient. <i>Environmental and Experimental Botany</i> , 2019, 167, 103825.	4.2	14

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200	Root chemistry and soil fauna, but not soil abiotic conditions explain the effects of plant diversity on root decomposition. <i>Oecologia</i> , 2017, 185, 499-511.	2.0	13
201	Responses of the structure and function of the understory plant communities to precipitation reduction across forest ecosystems in Germany. <i>Annals of Forest Science</i> , 2018, 75, 1.	2.0	13
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206	Above- and belowground overyielding are related at the community and species level in a grassland biodiversity experiment. <i>Advances in Ecological Research</i> , 2019, 61, 55-89.	2.7	12
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209	Photosynthetic acclimation and sensitivity to short- and long-term environmental changes in a drought-prone forest. <i>Journal of Experimental Botany</i> , 2022, 73, 2576-2588.	4.8	12
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212	Mortality predispositions of conifers across western USA. <i>New Phytologist</i> , 2021, 229, 831-844.	7.3	11
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218	Investment of needle nitrogen to photosynthesis controls the nonlinear productivity response of young Chinese fir trees to nitrogen deposition. <i>Science of the Total Environment</i> , 2022, 840, 156537.	8.0	10
219	Application of <i>L</i> & <i>H</i> 's (2001) partitioning method to complex functional traits. <i>Methods in Ecology and Evolution</i> , 2013, 4, 954-960.	5.2	9
220	Experimental evidence of two mechanisms coupling leaf-level C assimilation to rhizosphere CO <sub>2</sub> release. <i>Environmental and Experimental Botany</i> , 2017, 135, 21-26.	4.2	9
221	Foliar nitrogen metabolism of adult Douglas-fir trees is affected by soil water availability and varies little among provenances. <i>PLoS ONE</i> , 2018, 13, e0194684.	2.5	9
222	Degradability of raw and post-processed chars in a two-year field experiment. <i>Science of the Total Environment</i> , 2018, 628-629, 1600-1608.	8.0	8
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233	Water transport in trees—the importance of radial and circumferential transport. <i>Tree Physiology</i> , 2021, 41, 2245-2247.	3.1	6
234	Divergent roles of iron and aluminum in sediment organic matter association at the terrestrial-aquatic interface. <i>Biogeochemistry</i> , 2022, 157, 355-378.	3.5	6

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236	Xylem sap phosphorus sampling using microdialysis—a non-destructive high sampling frequency method tested under laboratory and field conditions. <i>Tree Physiology</i> , 2020, 40, 1623-1638.	3.1	5
237	Yield gap of winter wheat in Europe and sensitivity of potential yield to climate factors. <i>Climate Research</i> , 2016, 67, 179-190.	1.1	5
238	Sucrose synthase — an enzyme with a central role in the source—sink coordination and carbon flow in trees. <i>New Phytologist</i> , 2021, 229, 8-10.	7.3	4
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240	Drought effects on volatile organic compound emissions from Scots pine stems. <i>Plant, Cell and Environment</i> , 2021, , .	5.7	4
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250	Editor’s highlight for TSAF D-17-00396: carbon and oxygen isotopes in tree rings—climate signals and microsite effects. <i>Trees - Structure and Function</i> , 2018, 32, 881-882.	1.9	1
251	Recovery of silver fir ( <i>Abies alba</i> Mill.) seedlings from ungulate browsing mirrors soil nitrogen availability. <i>Tree Physiology</i> , 2022, 42, 273-288.	3.1	1
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