

# Hans Pretzsch

## List of Publications by Year in descending order

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Version: 2024-02-01

343  
papers

16,897  
citations

14644

66  
h-index

24232

110  
g-index

371  
all docs

371  
docs citations

371  
times ranked

9867  
citing authors

#	ARTICLE	IF	CITATIONS
1	Positive biodiversity-productivity relationship predominant in global forests. <i>Science</i> , 2016, 354, .	6.0	864
2	Resistance of European tree species to drought stress in mixed <i>versus</i> pure forests: evidence of stress release by inter&#x2013;specific facilitation. <i>Plant Biology</i> , 2013, 15, 483-495.	1.8	455
3	Forest stand growth dynamics in Central Europe have accelerated since 1870. <i>Nature Communications</i> , 2014, 5, 4967.	5.8	431
4	Forest Dynamics, Growth and Yield. , 2009, , .		430
5	Canopy space filling and tree crown morphology in mixed-species stands compared with monocultures. <i>Forest Ecology and Management</i> , 2014, 327, 251-264.	1.4	423
6	The single tree-based stand simulator SILVA: construction, application and evaluation. <i>Forest Ecology and Management</i> , 2002, 162, 3-21.	1.4	422
7	Comparison between the productivity of pure and mixed stands of Norway spruce and European beech along an ecological gradient. <i>Annals of Forest Science</i> , 2010, 67, 712-712.	0.8	268
8	Growth and yield of mixed versus pure stands of Scots pine ( <i>Pinus sylvestris</i> L.) and European beech ( <i>Fagus sylvatica</i> L.) analysed along a productivity gradient through Europe. <i>European Journal of Forest Research</i> , 2015, 134, 927-947.	1.1	257
9	Transgressive overyielding in mixed compared with pure stands of Norway spruce and European beech in Central Europe: evidence on stand level and explanation on individual tree level. <i>European Journal of Forest Research</i> , 2009, 128, 183-204.	1.1	251
10	TanDEM-X Pol-InSAR Performance for Forest Height Estimation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 6404-6422.	2.7	224
11	Generalized biomass and leaf area allometric equations for European tree species incorporating stand structure, tree age and climate. <i>Forest Ecology and Management</i> , 2017, 396, 160-175.	1.4	219
12	Productivity of mixed versus pure stands of oak ( <i>Quercus petraea</i> (Matt.) Liebl. and <i>Quercus robur</i> L.) and European beech ( <i>Fagus sylvatica</i> L.) along an ecological gradient. <i>European Journal of Forest Research</i> , 2013, 132, 263-280.	1.1	218
13	Models for Forest Ecosystem Management: A European Perspective. <i>Annals of Botany</i> , 2007, 101, 1065-1087.	1.4	214
14	Forest Dynamics, Growth, and Yield. , 2009, , 1-39.		200
15	Crown size and growing space requirement of common tree species in urban centres, parks, and forests. <i>Urban Forestry and Urban Greening</i> , 2015, 14, 466-479.	2.3	187
16	Biodiversity along temperate forest succession. <i>Journal of Applied Ecology</i> , 2018, 55, 2756-2766.	1.9	175
17	Characterization of the structure, dynamics, and productivity of mixed-species stands: review and perspectives. <i>European Journal of Forest Research</i> , 2016, 135, 23-49.	1.1	170
18	Traits of trees for cooling urban heat islands: A meta-analysis. <i>Building and Environment</i> , 2020, 170, 106606.	3.0	165

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19	Size-symmetric versus size-asymmetric competition and growth partitioning among trees in forest stands along an ecological gradient in central Europe. <i>Canadian Journal of Forest Research</i> , 2010, 40, 370-384.	0.8	163
20	Structural crown properties of Norway spruce ( <i>Picea abies</i> [L.] Karst.) and European beech ( <i>Fagus sylvatica</i> ) in mixed stands. <i>Forest Ecology and Management</i> , 2013, 27, 1035-1047.	0.9	163
21	Representation of species mixing in forest growth models. A review and perspective. <i>Ecological Modelling</i> , 2015, 313, 276-292.	1.2	149
22	Analysis and modeling of spatial stand structures. Methodological considerations based on mixed beech-larch stands in Lower Saxony. <i>Forest Ecology and Management</i> , 1997, 97, 237-253.	1.4	146
23	Enhanced ozone strongly reduces carbon sink strength of adult beech ( <i>Fagus sylvatica</i> ) – Resume from the free-air fumigation study at Kranzberg Forest. <i>Environmental Pollution</i> , 2010, 158, 2527-2532.	3.7	140
24	Species interactions increase the temporal stability of community productivity in <i>Pinus sylvestris</i> – <i>Fagus sylvatica</i> mixtures across Europe. <i>Journal of Ecology</i> , 2017, 105, 1032-1043.	1.9	140
25	Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12192-12200.	3.3	140
26	Effect of tree species mixing on the size structure, density, and yield of forest stands. <i>European Journal of Forest Research</i> , 2016, 135, 1-22.	1.1	137
27	Size-dependent responses to summer drought in Scots pine, Norway spruce and common oak. <i>Trees - Structure and Function</i> , 2012, 26, 557-569.	0.9	133
28	Morphological plasticity of European beech ( <i>Fagus sylvatica</i> L.) in pure and mixed-species stands. <i>Forest Ecology and Management</i> , 2013, 295, 97-108.	1.4	133
29	Positive biodiversity–productivity relationships in forests: climate matters. <i>Biology Letters</i> , 2018, 14, 20170747.	1.0	133
30	Temporal variation of competition and facilitation in mixed species forests in central Europe. <i>Plant Biology</i> , 2014, 16, 166-176.	1.8	132
31	Aggregative response in bats: prey abundance versus habitat. <i>Oecologia</i> , 2012, 169, 673-684.	0.9	131
32	Extraordinary drought of 2003 overrules ozone impact on adult beech trees ( <i>Fagus sylvatica</i> ). <i>Trees - Structure and Function</i> , 2006, 20, 539-548.	0.9	127
33	Stand density and growth of Norway spruce ( <i>Picea abies</i> (L.) Karst.) and European beech ( <i>Fagus sylvatica</i> ) in mixed stands. <i>Forest Ecology and Management</i> , 2006, 186, 124, 193-205.	1.1	126
34	Species-specific allometric scaling under self-thinning: evidence from long-term plots in forest stands. <i>Oecologia</i> , 2006, 146, 572-583.	0.9	126
35	Climate change accelerates growth of urban trees in metropolises worldwide. <i>Scientific Reports</i> , 2017, 7, 15403.	1.6	126
36	Effects of crown architecture and stand structure on light absorption in mixed and monospecific <i>Fagus sylvatica</i> and <i>Pinus sylvestris</i> forests along a productivity and climate gradient through Europe. <i>Journal of Ecology</i> , 2018, 106, 746-760.	1.9	125

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37	Crown Allometry and Growing Space Efficiency of Norway Spruce ( <i>Picea abies</i> [L.] Karst.) and European Beech ( <i>Fagus sylvatica</i> L.) in Pure and Mixed Stands. <i>Plant Biology</i> , 2005, 7, 628-639.	1.8	116
38	Diversity and Productivity in Forests: Evidence from Long-Term Experimental Plots. , 2005, , 41-64.		115
39	Mixing of Scots pine ( <i>Pinus sylvestris</i> L.) and European beech ( <i>Fagus sylvatica</i> L.) enhances structural heterogeneity, and the effect increases with water availability. <i>Forest Ecology and Management</i> , 2016, 373, 149-166.	1.4	115
40	Effect of forest stand management on species composition, structural diversity, and productivity in the temperate zone of Europe. <i>European Journal of Forest Research</i> , 2017, 136, 739-766.	1.1	114
41	Tree species mixing can increase maximum stand density. <i>Canadian Journal of Forest Research</i> , 2016, 46, 1179-1193.	0.8	113
42	Wood quality in complex forests versus even-aged monocultures: review and perspectives. <i>Wood Science and Technology</i> , 2016, 50, 845-880.	1.4	112
43	Tamm Review: On the strength of evidence when comparing ecosystem functions of mixtures with monocultures. <i>Forest Ecology and Management</i> , 2015, 356, 41-53.	1.4	111
44	Mixture reduces climate sensitivity of Douglas-fir stem growth. <i>Forest Ecology and Management</i> , 2016, 376, 205-220.	1.4	109
45	European Mixed Forests: definition and research perspectives. <i>Forest Systems</i> , 2014, 23, 518.	0.1	107
46	Mixed Norway spruce ( <i>Picea abies</i> [L.] Karst) and European beech ( <i>Fagus sylvatica</i> [L.] stands under drought: from reaction pattern to mechanism. <i>Trees - Structure and Function</i> , 2014, 28, 1305-1321.	0.9	106
47	Tree and stand growth of mature Norway spruce and European beech under long-term ozone fumigation. <i>Environmental Pollution</i> , 2010, 158, 1061-1070.	3.7	104
48	The greater resilience of mixed forests to drought mainly depends on their composition: Analysis along a climate gradient across Europe. <i>Forest Ecology and Management</i> , 2021, 481, 118687.	1.4	104
49	The timing of bud burst and its effect on tree growth. <i>International Journal of Biometeorology</i> , 2004, 48, 109-118.	1.3	103
50	How Sensitive Are Ecosystem Services in European Forest Landscapes to Silvicultural Treatment?. <i>Forests</i> , 2015, 6, 1666-1695.	0.9	103
51	What is Climate-Smart Forestry? A definition from a multinational collaborative process focused on mountain regions of Europe. <i>Ecosystem Services</i> , 2020, 43, 101113.	2.3	100
52	Advances in understanding ozone impact on forest trees: Messages from novel phytotron and free-air fumigation studies. <i>Environmental Pollution</i> , 2010, 158, 1990-2006.	3.7	97
53	Evidence of variant intra- and interspecific scaling of tree crown structure and relevance for allometric theory. <i>Oecologia</i> , 2012, 169, 637-649.	0.9	96
54	Die Fichten-Buchen-Mischbestände des Sonderforschungsbereiches "Wachstum oder Parasitenabwehr" im Kranzberger Forst. <i>European Journal of Forest Research</i> , 1998, 117, 241-257.	0.3	93

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55	The Plant's Capacity in Regulating Resource Demand. <i>Plant Biology</i> , 2005, 7, 560-580.	1.8	93
56	Analyzing size-symmetric vs. size-asymmetric and intra- vs. inter-specific competition in beech ( <i>Fagus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	90
57	Wood density reduced while wood volume growth accelerated in Central European forests since 1870. <i>Forest Ecology and Management</i> , 2018, 429, 589-616.	1.4	89
58	Long-term effects of logging intensity on structures, birds, saproxylic beetles and wood-inhabiting fungi in stands of European beech <i>Fagus sylvatica</i> L.. <i>Forest Ecology and Management</i> , 2007, 242, 297-305.	1.4	87
59	A Model for Individual Tree Development Based on Physiological Processes. <i>Plant Biology</i> , 2002, 4, 167-180.	1.8	86
60	The number of tree species on Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	86
61	Tree cooling effects and human thermal comfort under contrasting species and sites. <i>Agricultural and Forest Meteorology</i> , 2020, 287, 107947.	1.9	83
62	From ground to above canopyâ€”Bat activity in mature forests is driven by vegetation density and height. <i>Forest Ecology and Management</i> , 2013, 306, 179-184.	1.4	82
63	Terrestrial laser scanning reveals differences in crown structure of <i>Fagus sylvatica</i> in mixed vs. pure European forests. <i>Forest Ecology and Management</i> , 2017, 405, 381-390.	1.4	80
64	Growth and mortality of Norway spruce and European beech in monospecific and mixed-species stands under natural episodic and experimentally extended drought. Results of the KROOF throughfall exclusion experiment. <i>Trees - Structure and Function</i> , 2020, 34, 957-970.	0.9	80
65	Ecological Stability of Mixed-Species Forests. , 2017, , 337-382.		78
66	Ontogeny partly explains the apparent heterogeneity of published biomass equations for <i>Fagus sylvatica</i> in central Europe. <i>Forest Ecology and Management</i> , 2011, 261, 1188-1202.	1.4	71
67	The dependency of the size-growth relationship of Norway spruce ( <i>Picea abies</i> [L.] Karst.) and European beech ( <i>Fagus sylvatica</i> [L.]) in forest stands on long-term site conditions, drought events, and ozone stress. <i>Trees - Structure and Function</i> , 2011, 25, 355-369.	0.9	71
68	A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes. <i>Geoscientific Model Development</i> , 2015, 8, 2035-2065.	1.3	71
69	Structure and ecosystem services of small-leaved lime ( <i>Tilia cordata</i> Mill.) and black locust ( <i>Robinia</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	70
70	Toward managing mixed-species stands: from parametrization to prescription. <i>Forest Ecosystems</i> , 2017, 4, .	1.3	70
71	Mixed stands of Scots pine ( <i>Pinus sylvestris</i> L.) and Norway spruce [ <i>Picea abies</i> (L.) Karst] can be more productive than monocultures. Evidence from over 100 years of observation of long-term experiments. <i>Forest Systems</i> , 2014, 23, 573.	0.1	70
72	Climate effects on productivity and resource-use efficiency of Norway spruce ( <i>Picea abies</i> [L.] Karst.) and European beech ( <i>Fagus sylvatica</i> [L.]) in stands with different spatial mixing patterns. <i>Trees - Structure and Function</i> , 2012, 26, 1343-1360.	0.9	69

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73	Maintenance of long-term experiments for unique insights into forest growth dynamics and trends: review and perspectives. <i>European Journal of Forest Research</i> , 2019, 138, 165-185.	1.1	68
74	Growth reaction patterns of tree height, diameter, and volume of Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Research, 2014, 133, 1043-1056.	1.1	66
75	A review of thinning effects on Scots pine stands: From growth and yield to new challenges under global change. <i>Forest Systems</i> , 2017, 26, eR03S.	0.1	66
76	Changes of soil chemistry, stand nutrition, and stand growth at two Scots pine ( <i>Pinus sylvestris</i> L.) sites in Central Europe during 40 years after fertilization, liming, and lupine introduction. <i>European Journal of Forest Research</i> , 2008, 127, 43-61.	1.1	65
77	Does belowground interaction with <i>Fagus sylvatica</i> increase drought susceptibility of photosynthesis and stem growth in <i>Picea abies</i> ?. <i>Forest Ecology and Management</i> , 2016, 375, 268-278.	1.4	65
78	Improved productivity and modified tree morphology of mixed versus pure stands of European beech ( <i>Fagus sylvatica</i> ) and Douglas-fir ( <i>Pseudotsuga menziesii</i> ) with increasing precipitation and age. <i>Annals of Forest Science</i> , 2016, 73, 1047-1061.	0.8	65
79	Process based simulation of tree growth and ecosystem services of urban trees under present and future climate conditions. <i>Science of the Total Environment</i> , 2019, 676, 651-664.	3.9	65
80	Species mixing reduces drought susceptibility of Scots pine ( <i>Pinus sylvestris</i> L.) and oak ( <i>Quercus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Forest Ecology and Management</i> , 2020, 461, 117908.	1.4	65
81	Improving the simulation of stand structure in a forest gap model. <i>Forest Ecology and Management</i> , 1997, 95, 183-195.	1.4	63
82	Climatic turning point for beech and oak under climate change in Central Europe. <i>Ecosphere</i> , 2013, 4, 1-19.	1.0	63
83	Drought can favour the growth of small in relation to tall trees in mature stands of Norway spruce and European beech. <i>Forest Ecosystems</i> , 2018, 5, .	1.3	63
84	Ecosystem service trade-offs for adaptive forest management. <i>Ecosystem Services</i> , 2019, 39, 100993.	2.3	61
85	Changes of forest stand dynamics in Europe. Facts from long-term observational plots and their relevance for forest ecology and management. <i>Forest Ecology and Management</i> , 2014, 316, 65-77.	1.4	59
86	The Urban Environment Can Modify Drought Stress of Small-Leaved Lime ( <i>Tilia cordata</i> Mill.) and Black Locust ( <i>Robinia pseudoacacia</i> L.). <i>Forests</i> , 2016, 7, 71.	0.9	59
87	Climate influences on the maximum size-density relationship in Scots pine ( <i>Pinus sylvestris</i> L.) and European beech ( <i>Fagus sylvatica</i> L.) stands. <i>Forest Ecology and Management</i> , 2017, 385, 295-307.	1.4	59
88	Stand growth and structure of mixed-species and monospecific stands of Scots pine ( <i>Pinus sylvestris</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Europe. <i>European Journal of Forest Research</i> , 2020, 139, 349-367.	1.1	59
89	Modelling the conversion from even-aged to uneven-aged stands of Norway spruce ( <i>Picea abies</i> L.) Tj ETQq1 1 0.784314 rgBT /Overlock 58	1.4	58
90	Response patterns in adult forest trees to chronic ozone stress: identification of variations and consistencies. <i>Environmental Pollution</i> , 2005, 136, 365-369.	3.7	55

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91	Height – Diameter allometry in South Africa’s indigenous high forests: Assessing generic models performance and function forms. <i>Forest Ecology and Management</i> , 2018, 410, 1-11.	1.4	55
92	Growth of Adult Norway Spruce ( <i>Picea abies</i> [L.] Karst.) and European Beech ( <i>Fagus sylvatica</i> L.) Under Free-Air Ozone Fumigation. <i>Plant Biology</i> , 2005, 7, 611-618.	1.8	54
93	Effect of forest structure on stand productivity in Central European forests depends on developmental stage and tree species diversity. <i>Forest Ecology and Management</i> , 2019, 434, 193-204.	1.4	53
94	Modelling above and below ground carbon dynamics in a mixed beech and spruce stand influenced by climate. <i>European Journal of Forest Research</i> , 2009, 128, 171-182.	1.1	52
95	Tree ring wood density of Scots pine and European beech lower in mixed-species stands compared with monocultures. <i>Forest Ecology and Management</i> , 2017, 400, 363-374.	1.4	51
96	Stem and root diameter growth of European beech and Norway spruce under extreme drought. <i>Forest Ecology and Management</i> , 2017, 406, 184-195.	1.4	50
97	The Effect of Tree Crown Allometry on Community Dynamics in Mixed-Species Stands versus Monocultures. A Review and Perspectives for Modeling and Silvicultural Regulation. <i>Forests</i> , 2019, 10, 810.	0.9	50
98	Long-term stand dynamics of managed spruce–fir–beech mountain forests in Central Europe: structure, productivity and regeneration success. <i>Forestry</i> , 2015, 88, 407-428.	1.2	49
99	Analysis of long-term dynamics of crowns of sessile oaks at the stand level by means of spatial statistics. <i>Forest Ecology and Management</i> , 2008, 255, 2007-2019.	1.4	48
100	Growth and Parasite Defence in Plants; the Balance between Resource Sequestration and Retention: In Lieu of a Guest Editorial. <i>Plant Biology</i> , 2002, 4, 133-136.	1.8	46
101	Using terrestrial laser scanner for estimating leaf areas of individual trees in a conifer forest. <i>Trees - Structure and Function</i> , 2010, 24, 609-619.	0.9	46
102	The productivity of mixed mountain forests comprised of <i>Fagus sylvatica</i> , <i>Picea abies</i> , and <i>Abies alba</i> across Europe. <i>Forestry</i> , 2019, 92, 512-522.	1.2	46
103	Prediction of stem volume in complex temperate forest stands using TanDEM-X SAR data. <i>Remote Sensing of Environment</i> , 2016, 174, 197-211.	4.6	44
104	Using semi-global matching point clouds to estimate growing stock at the plot and stand levels: application for a broadleaf-dominated forest in central Europe. <i>Canadian Journal of Forest Research</i> , 2015, 45, 111-123.	0.8	43
105	Growth patterns and effects of urban micro-climate on two physiologically contrasting urban tree species. <i>Landscape and Urban Planning</i> , 2019, 183, 88-99.	3.4	43
106	Inter- and intraannual growth patterns of urban small-leaved lime ( <i>Tilia cordata</i> mill.) at two public squares with contrasting microclimatic conditions. <i>International Journal of Biometeorology</i> , 2017, 61, 1095-1107.	1.3	42
107	Density and growth of forest stands revisited. Effect of the temporal scale of observation, site quality, and thinning. <i>Forest Ecology and Management</i> , 2020, 460, 117879.	1.4	42
108	Changes in structural heterogeneity and stand productivity by mixing Scots pine and Maritime pine. <i>Forest Ecology and Management</i> , 2017, 405, 219-228.	1.4	41

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109	Predicting the spatial and temporal dynamics of species interactions in <i>Fagus sylvatica</i> and <i>Pinus sylvestris</i> forests across Europe. <i>Forest Ecology and Management</i> , 2017, 405, 112-133.	1.4	40
110	Assessing height changes in a highly structured forest using regularly acquired aerial image data. <i>Forestry</i> , 2015, 88, 304-316.	1.2	39
111	The Kroof experiment: realization and efficacy of a recurrent drought experiment plus recovery in a beech/spruce forest. <i>Ecosphere</i> , 2021, 12, e03399.	1.0	39
112	Influence of initial plant density on sawn timber properties for Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	38
113	The course of tree growth. Theory and reality. <i>Forest Ecology and Management</i> , 2020, 478, 118508.	1.4	38
114	Sizeâ€dependence of tree growth response to drought for Norway spruce and European beech individuals in monospecific and mixedâ€species stands. <i>Plant Biology</i> , 2017, 19, 709-719.	1.8	37
115	Modeling Ecosystem Services for Park Trees: Sensitivity of i-Tree Eco Simulations to Light Exposure and Tree Species Classification. <i>Forests</i> , 2018, 9, 89.	0.9	36
116	Tree species richness enhances stand productivity while stand structure can have opposite effects, based on forest inventory data from Germany and the United States of America. <i>Forest Ecosystems</i> , 2018, 5, .	1.3	36
117	Forest Biodiversity, Carbon Sequestration, and Wood Production: Modeling Synergies and Trade-Offs for Ten Forest Landscapes Across Europe. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	36
118	Spatial and temporal changes of outdoor thermal stress: influence of urban land cover types. <i>Scientific Reports</i> , 2022, 12, 671.	1.6	36
119	Evidence of elevation-specific growth changes of spruce, fir, and beech in European mixed mountain forests during the last three centuries. <i>Canadian Journal of Forest Research</i> , 2020, 50, 689-703.	0.8	35
120	Impact of Climate Trends and Drought Events on the Growth of Oaks ( <i>Quercus robur</i> L. and <i>Quercus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	34
121	Assessing transformation scenarios from pure Norway spruce to mixed uneven-aged forests in mountain areas. <i>European Journal of Forest Research</i> , 2020, 139, 567-584.	1.1	34
122	Growth Trends of Forests in Southern Germany. , 1996, , 107-131.		34
123	Waldwachstum im Wandel. <i>European Journal of Forest Research</i> , 1999, 118, 228-250.	0.3	33
124	A Unified Law of Spatial Allometry for Woody and Herbaceous Plants. <i>Plant Biology</i> , 2002, 4, 159-166.	1.8	33
125	Combating the effects of climatic change on forests by mitigation strategies. <i>Carbon Balance and Management</i> , 2010, 5, 8.	1.4	33
126	Transgressive overyielding in mixed compared with monospecific Scots pine ( <i>Pinus sylvestris</i> L.) and oak ( <i>Quercus robur</i> L., <i>Quercus petraea</i> (Matt.) Liebl.) stands â€ Productivity gains increase with annual water supply. <i>Forest Ecology and Management</i> , 2019, 439, 81-96.	1.4	33

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127	The PROFOUND Database for evaluating vegetation models and simulating climate impacts on European forests. <i>Earth System Science Data</i> , 2020, 12, 1295-1320.	3.7	33
128	Tree diameter growth after root trenching in a mature mixed stand of Norway spruce ( <i>Picea abies</i> [L.] Tj ETQq0 0 0, rgBT /Overlock 10 T	0.9	32
129	Tree species and size drive water consumption of beech/spruce forests - a simulation study highlighting growth under water limitation. <i>Plant and Soil</i> , 2017, 418, 337-356.	1.8	32
130	Modeling Tree Growth Taking into Account Carbon Source and Sink Limitations. <i>Frontiers in Plant Science</i> , 2017, 8, 182.	1.7	32
131	Importance of tree species size dominance and heterogeneity on the productivity of spruce-fir-beech mountain forest stands in Europe. <i>Forest Ecology and Management</i> , 2020, 457, 117716.	1.4	31
132	Drought Stress Reaction of Growth and $\delta^{13}C$ in Tree Rings of European Beech and Norway Spruce in Monospecific Versus Mixed Stands Along a Precipitation Gradient. <i>Forests</i> , 2017, 8, 177.	0.9	30
133	Half a century of Scots pine forest ecosystem monitoring reveals long-term effects of atmospheric deposition and climate change. <i>Global Change Biology</i> , 2020, 26, 5796-5815.	4.2	30
134	How drought stress becomes visible upon detecting tree shape using terrestrial laser scanning (TLS). <i>Forest Ecology and Management</i> , 2021, 489, 118975.	1.4	30
135	Size-structure dynamics of mixed versus pure forest stands. <i>Forest Systems</i> , 2014, 23, 560.	0.1	30
136	Effects of environmental changes on the vitality of forest stands. <i>European Journal of Forest Research</i> , 2005, 124, 349-362.	1.1	29
137	Species proportions by area in mixtures of Scots pine ( <i>Pinus sylvestris</i> L.) and European beech ( <i>Fagus</i> Tj ETQq1 1 0,784314 rgBT /Over	1.1	29
138	Static site indices from different national forest inventories: harmonization and prediction from site conditions. <i>Annals of Forest Science</i> , 2018, 75, 1.	0.8	29
139	Re-Evaluation of Allometry: State-of-the-Art and Perspective Regarding Individuals and Stands of Woody Plants. <i>Progress in Botany Fortschritte Der Botanik</i> , 2010, , 339-369.	0.1	29
140	Modelling approaches for mixed forests dynamics prognosis. Research gaps and opportunities. <i>Forest Systems</i> , 2019, 28, eR002.	0.1	29
141	Applying a common allometric equation to convert forest height from Pol-InSAR data to forest biomass. , 0, , .		28
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