

Harri MÄäkinen

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

6,620
citations

76326

40
h-index

71685

76
g-index

121
all docs

121
docs citations

121
times ranked

7305
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	A synthesis of radial growth patterns preceding tree mortality. <i>Global Change Biology</i> , 2017, 23, 1675-1690.	9.5	394
3	Woody biomass production lags stem-girth increase by over one month in coniferous forests. <i>Nature Plants</i> , 2015, 1, 15160.	9.3	294
4	Low growth resilience to drought is related to future mortality risk in trees. <i>Nature Communications</i> , 2020, 11, 545.	12.8	228
5	Radial growth variation of Norway spruce (<i>Picea abies</i> (L.) Karst.) across latitudinal and altitudinal gradients in central and northern Europe. <i>Forest Ecology and Management</i> , 2002, 171, 243-259.	3.2	193
6	PREDICTING THE DECOMPOSITION OF SCOTS PINE, NORWAY SPRUCE, AND BIRCH STEMS IN FINLAND. , 2006, 16, 1865-1879.		174
7	Pattern of xylem phenology in conifers of cold ecosystems at the Northern Hemisphere. <i>Global Change Biology</i> , 2016, 22, 3804-3813.	9.5	174
8	Thinning intensity and growth of Scots pine stands in Finland. <i>Forest Ecology and Management</i> , 2004, 201, 311-325.	3.2	169
9	Thinning intensity and growth of Norway spruce stands in Finland. <i>Forestry</i> , 2004, 77, 349-364.	2.3	142
10	Early-Warning Signals of Individual Tree Mortality Based on Annual Radial Growth. <i>Frontiers in Plant Science</i> , 2018, 9, 1964.	3.6	117
11	Seasonal changes in stem radius and production of new tracheids in Norway spruce. <i>Tree Physiology</i> , 2003, 23, 959-968.	3.1	115
12	Seasonal dynamics of wood formation: a comparison between pinning, microcoring and dendrometer measurements. <i>European Journal of Forest Research</i> , 2008, 127, 235-245.	2.5	113
13	Photoperiod and temperature as dominant environmental drivers triggering secondary growth resumption in Northern Hemisphere conifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20645-20652.	7.1	113
14	Wood-density variation of Norway spruce in relation to nutrient optimization and fibre dimensions. <i>Canadian Journal of Forest Research</i> , 2002, 32, 185-194.	1.7	105
15	A physiological model of softwood cambial growth. <i>Tree Physiology</i> , 2010, 30, 1235-1252.	3.1	96
16	Thinning intensity and long-term changes in increment and stem form of Norway spruce trees. <i>Forest Ecology and Management</i> , 2004, 201, 295-309.	3.2	95
17	Predicting branch angle and branch diameter of Scots pine from usual tree measurements and stand structural information. <i>Canadian Journal of Forest Research</i> , 1998, 28, 1686-1696.	1.7	94
18	Climatic signal in annual growth variation of Norway spruce (<i>Picea abies</i>) along a transect from central Finland to the Arctic timberline. <i>Canadian Journal of Forest Research</i> , 2000, 30, 769-777.	1.7	91

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19	<sc>CASSIA</sc> – a dynamic model for predicting intra-annual sink demand and interannual growth variation in <sc>Scots</sc> pine. <i>New Phytologist</i> , 2015, 206, 647-659.	7.3	91
20	Climatic signal in annual growth variation in damaged and healthy stands of Norway spruce [<i>Picea abies</i> (L.) Karst.] in southern Finland. <i>Trees - Structure and Function</i> , 2001, 15, 177-185.	1.9	89
21	Separating water-potential induced swelling and shrinking from measured radial stem variations reveals a cambial growth and osmotic concentration signal. <i>Plant, Cell and Environment</i> , 2016, 39, 233-244.	5.7	79
22	Intra-annual tracheid production of Norway spruce and Scots pine across a latitudinal gradient in Finland. <i>Agricultural and Forest Meteorology</i> , 2014, 194, 241-254.	4.8	76
23	Large-scale climatic variability and radial increment variation of <i>Picea abies</i> (L.) Karst. in central and northern Europe. <i>Trees - Structure and Function</i> , 2003, 17, 173-184.	1.9	74
24	Chilling and forcing temperatures interact to predict the onset of wood formation in Northern Hemisphere conifers. <i>Global Change Biology</i> , 2019, 25, 1089-1105.	9.5	72
25	Wood density within Norway spruce stems. <i>Silva Fennica</i> , 2008, 42, .	1.3	72
26	The effect of artificially induced drought on radial increment and wood properties of Norway spruce. <i>Tree Physiology</i> , 2010, 30, 103-115.	3.1	71
27	Wood density in Norway spruce: changes with thinning intensity and tree age. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1767-1778.	1.7	70
28	Predicting the number, death, and self-pruning of branches in Scots pine. <i>Canadian Journal of Forest Research</i> , 1999, 29, 1225-1236.	1.7	68
29	Environment-induced growth changes in the Finnish forests during 1971–2010 – An analysis based on National Forest Inventory. <i>Forest Ecology and Management</i> , 2017, 386, 22-36.	3.2	66
30	Effect of Growth Rate on Fibre Characteristics in Norway Spruce (<i>Picea abies</i> (L.) Karst.). <i>Holzforschung</i> , 2002, 56, 449-460.	1.9	65
31	Effect of wide spacing on increment and branch properties of young Norway spruce. <i>European Journal of Forest Research</i> , 2006, 125, 239-248.	2.5	65
32	Predicting wood and tracheid properties of Norway spruce. <i>Forest Ecology and Management</i> , 2007, 241, 175-188.	3.2	63
33	Generating 3D sawlogs with a process-based growth model. <i>Forest Ecology and Management</i> , 2003, 184, 337-354.	3.2	60
34	Thinning intensity and long-term changes in increment and stem form of Scots pine trees. <i>Forest Ecology and Management</i> , 2004, 203, 21-34.	3.2	56
35	Growth, suppression, death, and self-pruning of branches of Scots pine in southern and central Finland. <i>Canadian Journal of Forest Research</i> , 1999, 29, 585-594.	1.7	50
36	Predicting branch characteristics of Norway spruce (<i>Picea abies</i> (L.) Karst.) from simple stand and tree measurements. <i>Forestry</i> , 2003, 76, 525-546.	2.3	50

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37	Effect of stand density on radial growth of branches of Scots pine in southern and central Finland. Canadian Journal of Forest Research, 1999, 29, 1216-1224.	1.7	48
38	Geographical patterns in the radial growth response of Norway spruce provenances to climatic variation. Agricultural and Forest Meteorology, 2016, 222, 10-20.	4.8	45
39	Stem form and branchiness of Norway spruce as a sawn timber—Predicted by a process based model. Forest Ecology and Management, 2007, 241, 209-222.	3.2	43
40	Modelling branch characteristics of Norway spruce from wide spacings in Germany. Forest Ecology and Management, 2007, 242, 155-164.	3.2	43
41	Response of radial increment variation of Scots pine to temperature, precipitation and soil water content along a latitudinal gradient across Finland and Estonia. Agricultural and Forest Meteorology, 2014, 198-199, 294-308.	4.8	42
42	Forest susceptibility to storm damage is affected by similar factors regardless of storm type: Comparison of thunder storms and autumn extra-tropical cyclones in Finland. Forest Ecology and Management, 2016, 381, 17-28.	3.2	41
43	Fine-scale distribution of treeline trees and the nurse plant facilitation on the eastern Tibetan Plateau. Ecological Indicators, 2016, 66, 251-258.	6.3	41
44	Bayesian calibration of a carbon balance model PREBAS using data from permanent growth experiments and national forest inventory. Forest Ecology and Management, 2019, 440, 208-257.	3.2	40
45	Effect of sample selection on the environmental signal derived from tree-ring series. Forest Ecology and Management, 1999, 113, 83-89.	3.2	38
46	Effect of stand density on the branch development of silver birch (<i>Betula pendula</i> Roth) in central Finland. Trees - Structure and Function, 2002, 16, 346-353.	1.9	38
47	Does thinning intensity affect the tracheid dimensions of Norway spruce?. Canadian Journal of Forest Research, 2005, 35, 2685-2697.	1.7	38
48	Effect of half-systematic and systematic thinning on the increment of Scots pine and Norway spruce in Finland. Forestry, 2006, 79, 103-121.	2.3	38
49	Solar superstorm of AD 774 recorded subannually by Arctic tree rings. Nature Communications, 2018, 9, 3495.	12.8	38
50	Wood density of Norway spruce: Responses to timing and intensity of first commercial thinning and fertilisation. Forest Ecology and Management, 2006, 237, 513-521.	3.2	35
51	Do decomposing Scots pine, Norway spruce, and silver birch stems retain nitrogen?. Canadian Journal of Forest Research, 2008, 38, 3047-3055.	1.7	35
52	Intensive management of Scots pine stands in southern Finland: First empirical results and simulated further development. Forest Ecology and Management, 2005, 215, 37-50.	3.2	34
53	Wood density and tracheid properties of Scots pine: responses to repeated fertilization and timing of the first commercial thinning. Forestry, 2014, 87, 437-448.	2.3	34
54	Tree growth and its climate signal along latitudinal and altitudinal gradients: comparison of tree rings between Finland and the Tibetan Plateau. Biogeosciences, 2017, 14, 3083-3095.	3.3	34

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55	Growth response to cuttings in Norway spruce stands under even-aged and uneven-aged management. <i>Forest Ecology and Management</i> , 2019, 437, 314-323.	3.2	34
56	The suitability of height and radial increment variation in <i>Pinus sylvestris</i> (L.) for expressing environmental signals. <i>Forest Ecology and Management</i> , 1998, 112, 191-197.	3.2	32
57	Seasonal dynamics of the radial increment of Scots pine and Norway spruce in the southern and middle boreal zones in Finland. <i>Canadian Journal of Forest Research</i> , 2009, 39, 606-618.	1.7	32
58	Models relating stem growth to crown length dynamics: application to loblolly pine and Norway spruce. <i>Trees - Structure and Function</i> , 2012, 26, 469-478.	1.9	30
59	Radial, Height and Volume Increment Variation in <i>Picea abies</i> (L.) Karst. Stands with Varying Thinning Intensities. <i>Scandinavian Journal of Forest Research</i> , 2002, 17, 304-316.	1.4	29
60	Effect of intertree competition on branch characteristics of <i>Pinus sylvestris</i> families. <i>Scandinavian Journal of Forest Research</i> , 1996, 11, 129-136.	1.4	28
61	Volcanic dust veils from sixth century tree-ring isotopes linked to reduced irradiance, primary production and human health. <i>Scientific Reports</i> , 2018, 8, 1339.	3.3	28
62	Increment and decay in Norway spruce and Scots pine after artificial logging damage. <i>Canadian Journal of Forest Research</i> , 2007, 37, 2130-2141.	1.7	27
63	Harvesting damage caused by thinning of Norway spruce in unfrozen soil. <i>International Journal of Forest Engineering</i> , 2013, 24, 60-75.	0.8	26
64	Effects of thinning and fertilisation on tracheid dimensions and lignin content of Norway spruce. <i>Holzforschung</i> , 2007, 61, 301-310.	1.9	24
65	The effects of artificial soil frost on cambial activity and xylem formation in Norway spruce. <i>Trees - Structure and Function</i> , 2012, 26, 405-419.	1.9	24
66	Intra-annual tracheid formation of Norway spruce provenances in southern Finland. <i>Trees - Structure and Function</i> , 2012, 26, 543-555.	1.9	24
67	Predicting lumber grade and by-product yields for Scots pine trees. <i>Forest Ecology and Management</i> , 2009, 258, 146-158.	3.2	23
68	Frost rings in 1627 BC and AD 536 in subfossil pinewood from Finnish Lapland. <i>Quaternary Science Reviews</i> , 2019, 204, 208-215.	3.0	23
69	Effects of nutrient optimization on intra-annual wood formation in Norway spruce. <i>Tree Physiology</i> , 2013, 33, 1145-1155.	3.1	22
70	Bridging empirical and carbon-balance based forest site productivity – Significance of below-ground allocation. <i>Forest Ecology and Management</i> , 2016, 372, 64-77.	3.2	22
71	Large trees have increased greatly in Finland during 1921–2013, but recent observations on old trees tell a different story. <i>Ecological Indicators</i> , 2019, 99, 118-129.	6.3	22
72	Implications of delayed soil thawing on trees: A case study of a <i>Picea abies</i> stand. <i>Scandinavian Journal of Forest Research</i> , 2007, 22, 118-127.	1.4	21

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73	Predicting basal area of Scots pine branches. <i>Forest Ecology and Management</i> , 2003, 179, 351-362.	3.2	20
74	A new girth band for measuring stem diameter changes. <i>Forestry</i> , 2004, 77, 431-439.	2.3	19
75	Predicting wood and tracheid properties of Scots pine. <i>Forest Ecology and Management</i> , 2012, 279, 11-20.	3.2	19
76	Evaluation of models for branch characteristics of Scots pine in Finland. <i>Forest Ecology and Management</i> , 2002, 158, 25-39.	3.2	18
77	Automatic detection of onset and cessation of tree stem radius increase using dendrometer data. <i>Neurocomputing</i> , 2010, 73, 2039-2046.	5.9	18
78	Variation of tracheid length within annual rings of Scots pine and Norway spruce. <i>Holzforschung</i> , 2008, 62, 123-128.	1.9	17
79	Dynamics of diameter and height increment of Norway spruce and Scots pine in southern Finland. <i>Annals of Forest Science</i> , 2018, 75, 1.	2.0	17
80	An approach to assessing site index changes of Norway spruce based on spatially and temporally disjunct measurement series. <i>Forest Ecology and Management</i> , 2014, 323, 10-19.	3.2	16
81	Wood density of Norway spruce in uneven-aged stands. <i>Canadian Journal of Forest Research</i> , 2014, 44, 136-144.	1.7	16
82	Effects of pruning in Norway spruce on tree growth and grading of sawn boards in Finland. <i>Forestry</i> , 2014, 87, 417-424.	2.3	15
83	Effect of thinning on wood density and tracheid properties of Scots pine on drained peatland stands. <i>Forestry</i> , 2015, 88, 359-367.	2.3	15
84	Climatic signal in annual growth variation of Norway spruce (<i>Picea abies</i>) along a transect from central Finland to the Arctic timberline. <i>Canadian Journal of Forest Research</i> , 2000, 30, 769-777.	1.7	15
85	Photosynthesis, temperature and radial growth of Scots pine in northern Finland: identifying the influential time intervals. <i>Trees - Structure and Function</i> , 2011, 25, 323-332.	1.9	14
86	Effect of thinning and natural variation in bole roundness in Scots pine (<i>Pinus sylvestris</i> L.). <i>Forest Ecology and Management</i> , 1998, 107, 231-239.	3.2	13
87	Identifying the main drivers for the production and maturation of Scots pine tracheids along a temperature gradient. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 210-224.	4.8	13
88	Effect of Nutrient Optimization on Branch Characteristics in <i>Picea abies</i> (L.) Karst. <i>Scandinavian Journal of Forest Research</i> , 2001, 16, 354-362.	1.4	12
89	Hmodel, a Heterobasidion annosum model for even-aged Norway spruce stands. <i>Canadian Journal of Forest Research</i> , 2014, 44, 796-809.	1.7	12
90	Reducing the effects of disturbance on tree-ring data using intervention detection. <i>Scandinavian Journal of Forest Research</i> , 1997, 12, 351-355.	1.4	11

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91	Connecting potential frost damage events identified from meteorological records to radial growth variation in Norway spruce and Scots pine. <i>Trees - Structure and Function</i> , 2017, 31, 2023-2034.	1.9	11
92	Size-class structure of the forests of Finland during 1921–2013: a recovery from centuries of exploitation, guided by forest policies. <i>European Journal of Forest Research</i> , 2020, 139, 279-293.	2.5	11
93	Predicting branch angle and branch diameter of Scots pine from usual tree measurements and stand structural information. <i>Canadian Journal of Forest Research</i> , 1998, 28, 1686-1696.	1.7	11
94	Value of quality information of Scots pine stands in timber bidding. <i>Canadian Journal of Forest Research</i> , 2010, 40, 1781-1790.	1.7	10
95	Site index changes of Scots pine, Norway spruce and larch stands in southern and central Finland. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 95-104.	4.8	10
96	High-resolution topographical information improves tree-level storm damage models. <i>Canadian Journal of Forest Research</i> , 2018, 48, 721-728.	1.7	10
97	Increment cores from the Finnish National Forest Inventory as a source of information for studying intra-annual wood formation. <i>Dendrochronologia</i> , 2008, 26, 133-140.	2.2	9
98	Factors influencing the branchiness of young Scots pine trees. <i>Forestry</i> , 2014, 87, 257-265.	2.3	9
99	Effects of precipitation and temperature on the growth variation of Scots pine – A case study at two extreme sites in Finland. <i>Dendrochronologia</i> , 2017, 46, 35-45.	2.2	9
100	Including variation in branch and tree properties improves timber grade estimates in Scots pine stands. <i>Canadian Journal of Forest Research</i> , 2018, 48, 542-553.	1.7	8
101	Site carrying capacity of Norway spruce and Scots pine stands has increased in Germany and northern Europe. <i>Forest Ecology and Management</i> , 2021, 492, 119214.	3.2	8
102	Effect of intertree competition on biomass production of <i>Pinus sylvestris</i> (L.) half-sib families. <i>Forest Ecology and Management</i> , 1996, 86, 105-112.	3.2	7
103	Predicting timber properties from tree measurements at felling: Evaluation of the RetroSTEM model and TreeViz software for Norway spruce. <i>Forest Ecology and Management</i> , 2008, 255, 3524-3533.	3.2	7
104	Estimating the value of wood quality information in constrained optimization. <i>Canadian Journal of Forest Research</i> , 2012, 42, 1347-1358.	1.7	6
105	Evaluation of stand-level hybrid PipeQual model with permanent sample plot data of Norway spruce. <i>Canadian Journal of Forest Research</i> , 2017, 47, 234-245.	1.7	6
106	Predicting knottiness of Scots pine stems for quality bucking. <i>European Journal of Wood and Wood Products</i> , 2020, 78, 143-150.	2.9	6
107	Reliability of temperature signal in various climate indicators from northern Europe. <i>PLoS ONE</i> , 2017, 12, e0180042.	2.5	5
108	Effect of Nutrient Optimization on Branch Characteristics in <i>Picea abies</i> (L.) Karst.. <i>Scandinavian Journal of Forest Research</i> , 2001, 16, 354-362.	1.4	4

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109	Effect of stand density on radial growth of branches of Scots pine in southern and central Finland. Canadian Journal of Forest Research, 1999, 29, 1216-1224.	1.7	4
110	Predicting the number, death, and self-pruning of branches in Scots pine. Canadian Journal of Forest Research, 1999, 29, 1225-1236.	1.7	4
111	Log end face image and stem tapering indicate maximum bow height on Norway spruce bottom logs. European Journal of Forest Research, 2020, 139, 1079-1090.	2.5	3
112	Soil frost affects stem diameter growth of Norway spruce with delay. Trees - Structure and Function, 2021, 35, 761-767.	1.9	3
113	Reply to Elmendorf and Ettinger: Photoperiod plays a dominant and irreplaceable role in triggering secondary growth resumption. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32865-32867.	7.1	2
114	Growth, suppression, death, and self-pruning of branches of Scots pine in southern and central Finland. Canadian Journal of Forest Research, 1999, 29, 585-594.	1.7	2
115	From lakes to ratios: 14C measurement process of the Finnish tree-ring research consortium. Nuclear Instruments & Methods in Physics Research B, 2022, 519, 37-45.	1.4	2
116	Modeling persistence of coarse woody debris residuals in boreal forests as an ecological property. Ecosphere, 2021, 12, e03792.	2.2	1
117	Smoothed Prediction of the Onset of Tree Stem Radius Increase Based on Temperature Patterns. Lecture Notes in Computer Science, 2008, , 100-111.	1.3	0