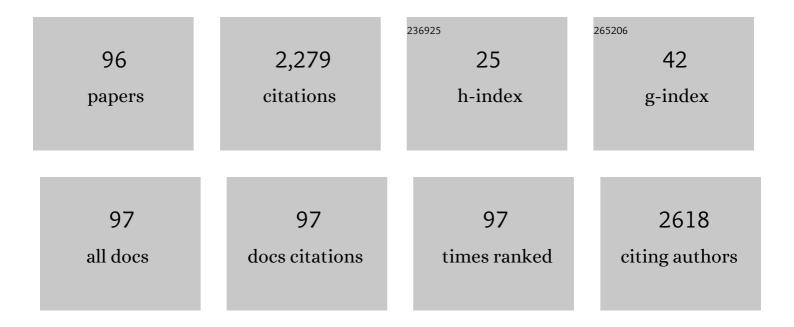
## Lauri Mehtätalo

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6284988/publications.pdf

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#	Article	IF	CITATIONS
1	<i>In-situ</i> calibration of stand level merchantable and sawlog volumes using cut-to-length harvester measurements and airborne laser scanning data. Forestry, 2022, 95, 105-117.	2.3	0
2	Modeling Forest Tree Data Using Sequential Spatial Point Processes. Journal of Agricultural, Biological, and Environmental Statistics, 2022, 27, 88-108.	1.4	2
3	Refining and evaluating a Horvitz–Thompson-like stand density estimator in individual tree detection based on airborne laser scanning. Canadian Journal of Forest Research, 2022, 52, 527-538.	1.7	3
4	Horvitzâ€Thompson–like estimation with distanceâ€based detection probabilities for circular plot sampling of forests. Biometrics, 2021, 77, 715-728.	1.4	4
5	Does parental angling selection affect the behavior or metabolism of brown trout parr?. Ecology and Evolution, 2021, 11, 2630-2644.	1.9	5
6	A nonlinear mixed model approach to predict energy expenditure from heart rate. Physiological Measurement, 2021, 42, 035001.	2.1	4
7	Restoration thinning reduces bush encroachment on freehold farmlands in north-central Namibia. Forestry, 2021, 94, 551-564.	2.3	6
8	Modelling Gaze Behaviour in Subtitle Processing. Journal of Audiovisual Translation, 2021, 4, 71-95.	1.0	0
9	Mixed-effect Bayesian network reveals personal effects of nutrition. Scientific Reports, 2021, 11, 12016.	3.3	4
10	Determining maximum entropy in 3D remote sensing height distributions and using it to improve aboveground biomass modelling via stratification. Remote Sensing of Environment, 2021, 260, 112464.	11.0	14
11	Accumulation of phenolics and growth of dioecious Populus tremula (L.) seedlings over three growing seasons under elevated temperature and UVB radiation. Plant Physiology and Biochemistry, 2021, 165, 114-122.	5.8	5
12	Predicting bilberry and cowberry yields using airborne laser scanning and other auxiliary data combined with National Forest Inventory field plot data. Forest Ecology and Management, 2021, 502, 119737.	3.2	3
13	Genetic modification of the flavonoid pathway alters growth and reveals flexible responses to enhanced UVB $\hat{a} \in$ Role of foliar condensed tannins. Plant-Environment Interactions, 2021, 2, 1-15.	1.5	0
14	Growth Equations in Forest Research: Mathematical Basis and Model Similarities. Current Forestry Reports, 2021, 7, 230-244.	7.4	8
15	Varying Vegetation Composition, Respiration and Photosynthesis Decrease Temporal Variability of the CO2 Sink in a Boreal Bog. Ecosystems, 2020, 23, 842-858.	3.4	11
16	Affect Recognition in Code Review: An In-situ Biometric Study of Reviewer's Affect. Journal of Systems and Software, 2020, 159, 110434.	4.5	16
17	Seasonal, medium-term and daily patterns of tree diameter growth in response to climate. Forestry, 2020, 93, 133-149.	2.3	5
18	Phytochemical Shift from Condensed Tannins to Flavonoids in Transgenic Betula pendula Decreases Consumption and Growth but Improves Growth Efficiency of Epirrita autumnata Larvae. Journal of Chemical Ecology, 2020, 46, 217-231.	1.8	6

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19	Forest inventories for small areas using drone imagery without in-situ field measurements. Remote Sensing of Environment, 2020, 237, 111404.	11.0	27
20	Responses in growth and phenolics accumulation to lateral bud removal in male and female saplings of Populus tremula (L.) under simulated climate change. Science of the Total Environment, 2020, 704, 135462.	8.0	3
21	Decline of the boreal willow grouse (LagopusÂlagopus) has been accelerated by more frequent snow-free springs. Scientific Reports, 2020, 10, 6987.	3.3	19
22	Grounds for improving the implementation of game-oriented forest management – A double sampling survey of Finnish forest owners and professionals. Forest Policy and Economics, 2020, 119, 102266.	3.4	4
23	Field calibration of merchantable and sawlog volumes in forest inventories based on airborne laser scanning. Canadian Journal of Forest Research, 2020, 50, 1352-1364.	1.7	6
24	Seemingly Unrelated Mixed-Effects Biomass Models for Young Silver Birch Stands on Post-Agricultural Lands. Forests, 2020, 11, 381.	2.1	13
25	Response of wildlife to bush thinning on the north central freehold farmlands of Namibia. Forest Ecology and Management, 2020, 473, 118330.	3.2	9
26	Mixed-effects generalized height–diameter model for young silver birch stands on post-agricultural lands. Forest Ecology and Management, 2020, 460, 117901.	3.2	47
27	Impacts of drainage, restoration and warming on boreal wetland greenhouse gas fluxes. Science of the Total Environment, 2019, 647, 169-181.	8.0	57
28	Remote sensing-assisted data assimilation and simultaneous inference for forest inventory. Remote Sensing of Environment, 2019, 234, 111431.	11.0	16
29	Estimating forest stand density and structure using Bayesian individual tree detection, stochastic geometry, and distribution matching. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 152, 66-78.	11.1	20
30	Resolution dependence in an area-based approach to forest inventory with airborne laser scanning. Remote Sensing of Environment, 2019, 224, 192-201.	11.0	28
31	Warming impacts on boreal fen CO <sub>2</sub> exchange under wet and dry conditions. Global Change Biology, 2019, 25, 1995-2008.	9.5	56
32	A Seven-Year Study of Phenolic Concentrations of the Dioecious Salix myrsinifolia. Journal of Chemical Ecology, 2018, 44, 416-430.	1.8	16
33	Airborne laser scanning for tree diameter distribution modelling: a comparison of different modelling alternatives in a tropical single-species plantation. Forestry, 2018, 91, 121-131.	2.3	18
34	Responses of phenology and biomass production of boreal fens to climate warming under different waterâ€ŧable level regimes. Global Change Biology, 2018, 24, 944-956.	9.5	80
35	The usefulness of small-area-based socioeconomic characteristics in assessing the treatment outcomes of type 2 diabetes patients: a register-based mixed-effect study. BMC Public Health, 2018, 18, 1258.	2.9	8
36	Development of height growth and frost hardiness for one-year-old Norway spruce seedlings in greenhouse conditions in response to elevated temperature and atmospheric CO <sub>2</sub> concentration. Silva Fennica, 2018, 52, .	1.3	1

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37	Differences in growth and wood density in clones and provenance hybrid clones of Norway spruce. Canadian Journal of Forest Research, 2017, 47, 389-399.	1.7	13
38	Production of glandular trichomes responds to water stress and temperature in silver birch ( <i>Betula pendula</i> ) leaves. Canadian Journal of Forest Research, 2017, 47, 1075-1081.	1.7	18
39	Scenario analyses for the effects of harvesting intensity on development of forest resources, timber supply, carbon balance and biodiversity of Finnish forestry. Forest Policy and Economics, 2017, 80, 80-98.	3.4	77
40	Anthropogenic environmental changes induce introgression in sympatric whitefish ecotypes. Biological Journal of the Linnean Society, 2017, 121, 613-626.	1.6	8
41	Responses of growth and leaf phenolics in European aspen ( <i>Populus tremula</i> ) to climate change during juvenile phase change. Canadian Journal of Forest Research, 2017, 47, 1350-1363.	1.7	23
42	Key structural features of Boreal forests may be detected directly using L-moments from airborne lidar data. Remote Sensing of Environment, 2017, 194, 437-446.	11.0	47
43	Applying polynomial regression modeling to productivity analysis of sustainable stump harvesting. Scandinavian Journal of Forest Research, 2017, 32, 204-212.	1.4	3
44	Growth, survival and interspecific social learning in the first hatchery generation of Eurasian perch (Perca fluviatilis). Aquaculture, 2017, 466, 64-71.	3.5	11
45	Species-specific temporal variation in photosynthesis as a moderator of peatland carbon sequestration. Biogeosciences, 2017, 14, 257-269.	3.3	22
46	Variability and patterns in forest soil and vegetation characteristics after prescribed burning in clear-cuts and restoration burnings. Silva Fennica, 2017, 51, .	1.3	9
47	Seasonal Succession of Fungi Associated with Ips typographus Beetles and Their Phoretic Mites in an Outbreak Region of Finland. PLoS ONE, 2016, 11, e0155622.	2.5	32
48	Detecting moose ( <i>Alces alces</i> ) browsing damage in young boreal forests from airborne laser scanning data. Canadian Journal of Forest Research, 2016, 46, 10-19.	1.7	9
49	Vegetation structure and photosynthesis respond rapidly to restoration in young coastal fens. Ecology and Evolution, 2016, 6, 6880-6891.	1.9	16
50	Responses of methanogenic and methanotrophic communities to warming in varying moisture regimes of two boreal fens. Soil Biology and Biochemistry, 2016, 97, 144-156.	8.8	92
51	Effects of contaminated soil on the growth performance of young Salix (Salix schwerinii E. L. Wolf) and the potential for phytoremediation of heavy metals. Journal of Environmental Management, 2016, 183, 467-477.	7.8	58
52	Forest structure as a determinant of grouse brood occurrence – An analysis linking LiDAR data with presence/absence field data. Forest Ecology and Management, 2016, 380, 202-211.	3.2	21
53	Stand density estimators based on individual tree detection and stochastic geometry. Canadian Journal of Forest Research, 2016, 46, 1359-1366.	1.7	18
54	Variation in photosynthetic properties among bog plants. Botany, 2016, 94, 1127-1139.	1.0	22

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55	Linear mixed-effects models and calibration applied to volume models in two rotations of <i>Eucalyptus grandis</i> plantations. Canadian Journal of Forest Research, 2016, 46, 132-141.	1.7	14
56	Ecological dimensions of airborne laser scanning — Analyzing the role of forest structure in moose habitat use within a year. Remote Sensing of Environment, 2016, 173, 238-247.	11.0	21
57	Rewetting of drained boreal spruce swamp forests results in rapid recovery of <i>Sphagnum</i> production. Journal of Applied Ecology, 2015, 52, 1355-1363.	4.0	15
58	The effects of forest management on terrestrial habitats of a rare and a common newt species. European Journal of Forest Research, 2015, 134, 377-388.	2.5	12
59	Matching remotely sensed and field-measured tree size distributions. Canadian Journal of Forest Research, 2015, 45, 353-363.	1.7	25
60	Modeling height-diameter curves for prediction. Canadian Journal of Forest Research, 2015, 45, 826-837.	1.7	117
61	Estimating Tree Height Distribution Using Low-Density ALS Data With and Without Training Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1432-1441.	4.9	8
62	Performance of late succession species along a chronosequence: Environment does not exclude <i>Sphagnum fuscum</i> from the early stages of mire development. Journal of Vegetation Science, 2015, 26, 291-301.	2.2	11
63	Photosynthetic traits of <i>Sphagnum</i> and feather moss species in undrained, drained and rewetted boreal spruce swamp forests. Ecology and Evolution, 2014, 4, 381-396.	1.9	33
64	Developing generalized, calibratable, mixed-effects meta-models for large-scale biomass prediction. Canadian Journal of Forest Research, 2014, 44, 648-656.	1.7	23
65	Moose ( <i><scp>A</scp>lces alces</i> ) reacts to high summer temperatures by utilizing thermal shelters in boreal forests – an analysis based on airborne laser scanning of the canopy structure at moose locations. Global Change Biology, 2014, 20, 1115-1125.	9.5	85
66	The Response of Basal Area Growth of Scots Pine to Thinning: A Longitudinal Analysis of Tree-Specific Series Using a Nonlinear Mixed-Effects Model. Forest Science, 2014, 60, 636-644.	1.0	25
67	A Model-Based Approach for the Recovery of Forest Attributes Using Airborne Laser Scanning Data. Managing Forest Ecosystems, 2014, , 193-211.	0.9	4
68	Characterizing forest structural types and shelterwood dynamics from Lorenz-based indicators predicted by airborne laser scanning. Canadian Journal of Forest Research, 2013, 43, 1063-1074.	1.7	55
69	The longevity of Norway spruce responses to boron fertilisation. Forest Ecology and Management, 2013, 307, 90-100.	3.2	4
70	Analysing space–time tree interdependencies based on individual tree growth functions. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1673-1681.	4.0	6
71	Parameter recovery vs. parameter prediction for the Weibull distribution validated for Scots pine stands in Finland. Silva Fennica, 2013, 47, .	1.3	36
72	A Model-Based Approach for Airborne Laser Scanning Inventory: Application for Square Grid Spatial Pattern. Forest Science, 2012, 58, 106-118.	1.0	5

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73	Effects of forest inventory errors on the area and spatial layout of harvest blocks. European Journal of Forest Research, 2012, 131, 1943-1955.	2.5	1
74	Evaluating marginal and conditional predictions of taper models in the absence of calibration data. Canadian Journal of Forest Research, 2012, 42, 1383-1394.	1.7	78
75	Predicting and calibrating tree attributes by means of airborne laser scanning and field measurements. Canadian Journal of Forest Research, 2012, 42, 1896-1907.	1.7	32
76	Effects of cambial age, clone and climatic factors on ring width and ring density in Norway spruce (Picea abies) in southeastern Finland. Forest Ecology and Management, 2012, 263, 9-16.	3.2	22
77	Analysing the agreement between an Airborne Laser Scanning based forest inventory and a control inventory $\hat{a} \in $ a case study in the state owned forests in Finland. Silva Fennica, 2012, 46, .	1.3	13
78	Combining tree height samples produced by airborne laser scanning and stand management records to estimate plot volume in <i>Eucalyptus</i> plantations. Canadian Journal of Forest Research, 2011, 41, 1649-1658.	1.7	23
79	Combining a predicted diameter distribution with an estimate based on a small sample of diameters. Canadian Journal of Forest Research, 2011, 41, 750-762.	1.7	11
80	Comparing individual tree detection and the area-based statistical approach for the retrieval of forest stand characteristics using airborne laser scanning in Scots pine stands. Canadian Journal of Forest Research, 2011, 41, 583-598.	1.7	54
81	Effects of spacing and genetic entry on radial growth and ring density development in Scots pine (Pinus sylvestris L.). Annals of Forest Science, 2011, 68, 1233-1243.	2.0	8
82	ALS-based estimation of plot volume and site index in a eucalyptus plantation with a nonlinear mixed-effect model that accounts for the clone effect. Annals of Forest Science, 2011, 68, 1085.	2.0	47
83	Correlations, distributions, and trends in forest inventory errors and their effects on forest planning. Canadian Journal of Forest Research, 2010, 40, 1386-1396.	1.7	28
84	Inoptimality losses in forest management decisions caused by errors in an inventory based on airborne laser scanning and aerial photographs. Canadian Journal of Forest Research, 2010, 40, 2427-2438.	1.7	11
85	Model correlation in stochastic forest simulators—A case of multilevel multivariate model for seedling establishment. Ecological Modelling, 2009, 220, 545-555.	2.5	2
86	Analyzing the effects of inventory errors on holding-level forest plans: the case of measurement error in the basal area of the dominated tree species. Silva Fennica, 2009, 43, .	1.3	19
87	Comparing strategies for modeling tree diameter percentiles from remeasured plots. Environmetrics, 2008, 19, 529-548.	1.4	30
88	Testing the usability of truncated angle count sample plots as ground truth in airborne laser scanning-based forest inventories. Forestry, 2007, 80, 73-81.	2.3	25
89	Eliminating the effect of overlapping crowns from aerial inventory estimates. Canadian Journal of Forest Research, 2006, 36, 1649-1660.	1.7	26
90	Generalizing Sample Tree Information. , 2006, , 85-106.		9

Generalizing Sample Tree Information. , 2006, , 85-106. 90

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91	The use of quantile trees in the prediction of the diameter distribution of a stand. Silva Fennica, 2006, 40, .	1.3	14
92	An approach to optimizing field data collection in an inventory by compartments. Canadian Journal of Forest Research, 2005, 35, 100-112.	1.7	11
93	Height-diameter models for Scots pine and birch in Finland. Silva Fennica, 2005, 39, .	1.3	29
94	A longitudinal height–diameter model for Norway spruce in Finland. Canadian Journal of Forest Research, 2004, 34, 131-140.	1.7	88
95	Improving the quality of landscape ecological forest planning by utilising advanced decision-support tools. Forest Ecology and Management, 2000, 132, 157-171.	3.2	129
96	Two Mechanisms Drive Changes in Boreal Peatland Photosynthesis Following Long-Term Water Level Drawdown: Species Turnover and Altered Photosynthetic Capacity. Ecosystems, 0, , 1.	3.4	2