

Lauri Korhonen

List of Publications by Year in descending order

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72
papers

2,242
citations

279798

23
h-index

233421

45
g-index

76
all docs

76
docs citations

76
times ranked

2761
citing authors

#	ARTICLE	IF	CITATIONS
1	Airborne discrete-return LIDAR data in the estimation of vertical canopy cover, angular canopy closure and leaf area index. <i>Remote Sensing of Environment</i> , 2011, 115, 1065-1080.	11.0	305
2	Comparison of Sentinel-2 and Landsat 8 in the estimation of boreal forest canopy cover and leaf area index. <i>Remote Sensing of Environment</i> , 2017, 195, 259-274.	11.0	252
3	Estimation of forest canopy cover: a comparison of field measurement techniques. <i>Silva Fennica</i> , 2006, 40, .	1.3	243
4	LiDAR waveform features for tree species classification and their sensitivity to tree- and acquisition related parameters. <i>Remote Sensing of Environment</i> , 2016, 173, 224-237.	11.0	88
5	Seasonal variation in MODIS LAI for a boreal forest area in Finland. <i>Remote Sensing of Environment</i> , 2012, 126, 104-115.	11.0	82
6	Forestation of boreal peatlands: Impacts of changing albedo and greenhouse gas fluxes on radiative forcing. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	64
7	Comparison of methods for measuring gap size distribution and canopy nonrandomness at JÄrvselja RAMI (RAAdiation transfer Model Intercomparison) test sites. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 365-377.	4.8	64
8	Bayesian Approach to Tree Detection Based on Airborne Laser Scanning Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 2690-2699.	6.3	56
9	Use of airborne lidar for estimating canopy gap fraction and leaf area index of tropical montane forests. <i>International Journal of Remote Sensing</i> , 2015, 36, 2569-2583.	2.9	53
10	Nationwide airborne laser scanning based models for volume, biomass and dominant height in Finland. <i>Silva Fennica</i> , 2016, 50, .	1.3	53
11	Retrieving vegetation clumping index from Multi-angle Imaging SpectroRadiometer (MISR) data at 275m resolution. <i>Remote Sensing of Environment</i> , 2013, 138, 126-133.	11.0	46
12	Estimation of tree crown volume from airborne lidar data using computational geometry. <i>International Journal of Remote Sensing</i> , 2013, 34, 7236-7248.	2.9	46
13	Multispectral Airborne LiDAR Data in the Prediction of Boreal Tree Species Composition. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 3462-3471.	6.3	43
14	Local models for forest canopy cover with beta regression. <i>Silva Fennica</i> , 2007, 41, .	1.3	41
15	The use of airborne laser scanning to estimate sawlog volumes. <i>Forestry</i> , 2008, 81, 499-510.	2.3	36
16	Structural factors driving boreal forest albedo in Finland. <i>Remote Sensing of Environment</i> , 2016, 175, 43-51.	11.0	36
17	Laser-assisted selection of field plots for an area-based forest inventory. <i>Silva Fennica</i> , 2013, 47, .	1.3	36
18	Retrieval of boreal forest LAI using a forest reflectance model and empirical regressions. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2011, 13, 595-606.	2.8	34

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19	Comparison of multispectral airborne laser scanning and stereo matching of aerial images as a single sensor solution to forest inventories by tree species. <i>Remote Sensing of Environment</i> , 2019, 231, 111208.	11.0	32
20	Assessing the performance of aerial image point cloud and spectral metrics in predicting boreal forest canopy cover. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 129, 77-85.	11.1	31
21	Digital photography for tracking the phenology of an evergreen conifer stand. <i>Agricultural and Forest Meteorology</i> , 2017, 246, 15-21.	4.8	29
22	The accuracy of large-area forest canopy cover estimation using Landsat in boreal region. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 53, 118-127.	2.8	28
23	Forest inventories for small areas using drone imagery without in-situ field measurements. <i>Remote Sensing of Environment</i> , 2020, 237, 111404.	11.0	27
24	Leaf Area Index (LAI) Estimation of Boreal Forest Using Wide Optics Airborne Winter Photos. <i>Remote Sensing</i> , 2009, 1, 1380-1394.	4.0	24
25	Effect of field plot location on estimating tropical forest above-ground biomass in Nepal using airborne laser scanning data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 94, 55-62.	11.1	21
26	Tropical forest canopy cover estimation using satellite imagery and airborne lidar reference data. <i>Silva Fennica</i> , 2015, 49, .	1.3	21
27	Detection of the need for seedling stand tending using high-resolution remote sensing data. <i>Silva Fennica</i> , 2013, 47, .	1.3	21
28	Modelling lidar-derived boreal forest canopy cover with SPOT 4 HRVIR data. <i>International Journal of Remote Sensing</i> , 2013, 34, 8172-8181.	2.9	20
29	Automatic Segment-Level Tree Species Recognition Using High Resolution Aerial Winter Imagery. <i>European Journal of Remote Sensing</i> , 2016, 49, 239-259.	3.5	20
30	Comparison of linear regression, k-nearest neighbour and random forest methods in airborne laser-scanning-based prediction of growing stock. <i>Forestry</i> , 2021, 94, 311-323.	2.3	20
31	Backscattering of individual LiDAR pulses from forest canopies explained by photogrammetrically derived vegetation structure. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 83, 81-93.	11.1	19
32	LiDAR-Based Estimates of Canopy Base Height for a Dense Uneven-Aged Structured Forest. <i>Remote Sensing</i> , 2020, 12, 1565.	4.0	19
33	Quantifying the missing link between forest albedo and productivity in the boreal zone. <i>Biogeosciences</i> , 2016, 13, 6015-6030.	3.3	18
34	Airborne Estimation of Boreal Forest LAI in Winter Conditions: A Test Using Summer and Winter Ground Truth. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 68-74.	6.3	16
35	Forest canopy structure and reflectance in humid tropical Borneo: A physically-based interpretation using spectral invariants. <i>Remote Sensing of Environment</i> , 2017, 201, 314-330.	11.0	16
36	Predicting stand age in managed forests using National Forest Inventory field data and airborne laser scanning. <i>Forest Ecosystems</i> , 2020, 7, .	3.1	16

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37	Tracking the Seasonal Dynamics of Boreal Forest Photosynthesis Using EO-1 Hyperion Reflectance: Sensitivity to Structural and Illumination Effects. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5105-5116.	6.3	15
38	Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 233, 1-12.	2.3	15
39	Predicting forest growth based on airborne light detection and ranging data, climate data, and a simplified process-based model. Canadian Journal of Forest Research, 2013, 43, 364-375.	1.7	14
40	Training Area Concept in a Two-Phase Biomass Inventory Using Airborne Laser Scanning and RapidEye Satellite Data. Remote Sensing, 2014, 6, 285-309.	4.0	13
41	Calibration of nationwide airborne laser scanning based stem volume models. Remote Sensing of Environment, 2018, 210, 179-192.	11.0	13
42	Multispectral LiDAR-Based Estimation of Surface Fuel Load in a Dense Coniferous Forest. Remote Sensing, 2020, 12, 3333.	4.0	13
43	The transferability of airborne laser scanning based tree-level models between different inventory areas. Canadian Journal of Forest Research, 2019, 49, 228-236.	1.7	12
44	Retrieval and validation of forest background reflectivity from daily Moderate Resolution Imaging Spectroradiometer (MODIS) bidirectional reflectance distribution function (BRDF) data across European forests. Biogeosciences, 2021, 18, 621-635.	3.3	12
45	Prediction of forest canopy fuel parameters in managed boreal forests using multispectral and unispectral airborne laser scanning data and aerial images. European Journal of Remote Sensing, 2020, 53, 245-257.	3.5	11
46	Estimation of Canopy Cover, Gap Fraction and Leaf Area Index with Airborne Laser Scanning. Managing Forest Ecosystems, 2014, , 397-417.	0.9	11
47	Effects of numbers of observations and predictors for various model types on the performance of forest inventory with airborne laser scanning. Canadian Journal of Forest Research, 2022, 52, 385-395.	1.7	11
48	A relascope for measuring canopy cover. Canadian Journal of Forest Research, 2008, 38, 2545-2550.	1.7	10
49	Predicting the occurrence of large-diameter trees using airborne laser scanning. Canadian Journal of Forest Research, 2016, 46, 461-469.	1.7	9
50	Using LiDAR-modified topographic wetness index, terrain attributes with leaf area index to improve a single-tree growth model in south-eastern Finland. Forestry, 2019, 92, 253-263.	2.3	9
51	Direct Estimation of Forest Leaf Area Index based on Spectrally Corrected Airborne LiDAR Pulse Penetration Ratio. Remote Sensing, 2020, 12, 217.	4.0	9
52	Prediction error aggregation behaviour for remote sensing augmented forest inventory approaches. Forestry, 2021, 94, 576-587.	2.3	8
53	Inventory of aspen trees in spruce dominated stands in conservation area. Forest Ecosystems, 2015, 2, .	3.1	7
54	Estimating the beyond-shoot foliage clumping at two contrasting points in the growing season using a variety of field-based methods. Trees - Structure and Function, 2017, 31, 1367-1373.	1.9	7

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55	How much can airborne laser scanning based forest inventory by tree species benefit from auxiliary optical data?. International Journal of Applied Earth Observation and Geoinformation, 2018, 72, 91-98.	2.8	7
56	Generating fine resolution leaf area index maps for boreal forests of Finland. , 2011, , .		6
57	Application of 3D triangulations of airborne laser scanning data to estimate boreal forest leaf area index. International Journal of Applied Earth Observation and Geoinformation, 2017, 59, 53-62.	2.8	6
58	Detection of European Aspen (Populus tremula L.) Based on an Unmanned Aerial Vehicle Approach in Boreal Forests. Remote Sensing, 2021, 13, 1723.	4.0	6
59	Transferability and calibration of airborne laser scanning based mixed-effects models to estimate the attributes of sawlog-sized Scots pines. Silva Fennica, 2019, 53, .	1.3	6
60	Airborne Measurements of Surface Albedo and Leaf Area Index of Snowâ€Covered Boreal Forest. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	6
61	A Comparison of Linear-Mode and Single-Photon Airborne LiDAR in Species-Specific Forest Inventories. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	5
62	Estimation of periodic annual increment of tree ring widths by airborne laser scanning. Canadian Journal of Forest Research, 2022, 52, 644-651.	1.7	5
63	Comparison of field and airborne laser scanning based crown cover estimates across land cover types in Kenya. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 409-415.	0.2	4
64	Estimation of Individual Tree Stem Biomass in an Uneven-Aged Structured Coniferous Forest Using Multispectral LiDAR Data. Remote Sensing, 2021, 13, 4827.	4.0	4
65	Estimation of boreal forest canopy cover with ground measurements, statistical models and remote sensing. Dissertationes Forestales, 2011, 2011, .	0.1	3
66	Estimation of boreal forest LAI in winter conditions: Test of a new method using wide optics airborne images. , 2010, , .		2
67	Boreal forest albedo and LAI in SNORTEX 2008–2010. , 2012, , .		2
68	Fusion of crown and trunk detections from airborne UAS based laser scanning for small area forest inventories. International Journal of Applied Earth Observation and Geoinformation, 2021, 100, 102327.	2.8	2
69	BACKSCATTERING OF INDIVIDUAL LIDAR PULSES FROM FOREST CANOPIES EXPLAINED BY PHOTGRAMMETRICALLY DERIVED VEGETATION STRUCTURE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W1, 171-176.	0.2	2
70	Bayesian approach to tree detection with airborne laser scanning. , 2012, , .		1
71	Estimating the clumping index at two contrasting points in the growing season using a variety of field-based methods. , 2016, , .		0
72	Transferability of ALS-based forest attribute models when predicting with drone-based image point cloud data. International Journal of Applied Earth Observation and Geoinformation, 2021, 103, 102484.	2.8	0