

Juha M Hyypä

List of Publications by Year in descending order

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316
papers

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10956

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#	ARTICLE	IF	CITATIONS
1	A segmentation-based method to retrieve stem volume estimates from 3-D tree height models produced by laser scanners. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 969-975.	2.7	554
2	Terrestrial laser scanning in forest inventories. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 115, 63-77.	4.9	511
3	Laser scanning of forest resources: the nordic experience. <i>Scandinavian Journal of Forest Research</i> , 2004, 19, 482-499.	0.5	386
4	An International Comparison of Individual Tree Detection and Extraction Using Airborne Laser Scanning. <i>Remote Sensing</i> , 2012, 4, 950-974.	1.8	376
5	Accuracy comparison of various remote sensing data sources in the retrieval of forest stand attributes. <i>Forest Ecology and Management</i> , 2000, 128, 109-120.	1.4	318
6	Estimation of timber volume and stem density based on scanning laser altimetry and expected tree size distribution functions. <i>Remote Sensing of Environment</i> , 2004, 90, 319-330.	4.6	307
7	Individual Tree Detection and Classification with UAV-Based Photogrammetric Point Clouds and Hyperspectral Imaging. <i>Remote Sensing</i> , 2017, 9, 185.	1.8	307
8	Predicting individual tree attributes from airborne laser point clouds based on the random forests technique. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2011, 66, 28-37.	4.9	286
9	A low-cost multi-sensoral mobile mapping system and its feasibility for tree measurements. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2010, 65, 514-522.	4.9	276
10	Remote sensing methods for power line corridor surveys. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 119, 10-31.	4.9	265
11	Automatic detection of harvested trees and determination of forest growth using airborne laser scanning. <i>Remote Sensing of Environment</i> , 2004, 90, 451-462.	4.6	262
12	Mini-UAV-Borne LIDAR for Fine-Scale Mapping. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 426-430.	1.4	260
13	International benchmarking of terrestrial laser scanning approaches for forest inventories. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 144, 137-179.	4.9	254
14	Automatic Stem Mapping Using Single-Scan Terrestrial Laser Scanning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 661-670.	2.7	236
15	Registration of large-scale terrestrial laser scanner point clouds: A review and benchmark. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 163, 327-342.	4.9	220
16	Individual tree biomass estimation using terrestrial laser scanning. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 75, 64-75.	4.9	214
17	Detection of Vertical Pole-Like Objects in a Road Environment Using Vehicle-Based Laser Scanning Data. <i>Remote Sensing</i> , 2010, 2, 641-664.	1.8	209
18	Tree species classification using airborne LiDAR – effects of stand and tree parameters, downsizing of training set, intensity normalization, and sensor type. <i>Silva Fennica</i> , 2010, 44, .	0.5	195

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19	Is field-measured tree height as reliable as believed – A comparison study of tree height estimates from field measurement, airborne laser scanning and terrestrial laser scanning in a boreal forest. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 147, 132-145.	4.9	179
20	Retrieval Algorithms for Road Surface Modelling Using Laser-Based Mobile Mapping. Sensors, 2008, 8, 5238-5249.	2.1	171
21	Seamless Mapping of River Channels at High Resolution Using Mobile LiDAR and UAV-Photography. Remote Sensing, 2013, 5, 6382-6407.	1.8	166
22	Automated Stem Curve Measurement Using Terrestrial Laser Scanning. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1739-1748.	2.7	166
23	Airborne laser scanning and digital stereo imagery measures of forest structure: comparative results and implications to forest mapping and inventory update. Canadian Journal of Remote Sensing, 2013, 39, 382-395.	1.1	165
24	The accuracy of estimating individual tree variables with airborne laser scanning in a boreal nature reserve. Canadian Journal of Forest Research, 2004, 34, 1791-1801.	0.8	161
25	Two-channel Hyperspectral LiDAR with a Supercontinuum Laser Source. Sensors, 2010, 10, 7057-7066.	2.1	157
26	Multiplatform Mobile Laser Scanning: Usability and Performance. Sensors, 2012, 12, 11712-11733.	2.1	156
27	Advances in Forest Inventory Using Airborne Laser Scanning. Remote Sensing, 2012, 4, 1190-1207.	1.8	151
28	Identifying and quantifying structural characteristics of heterogeneous boreal forests using laser scanner data. Forest Ecology and Management, 2005, 216, 41-50.	1.4	146
29	Comparison of the Selected State-Of-The-Art 3D Indoor Scanning and Point Cloud Generation Methods. Remote Sensing, 2017, 9, 796.	1.8	141
30	Estimation of stem volume using laser scanning-based canopy height metrics. Forestry, 2006, 79, 217-229.	1.2	140
31	Outlook for the Next Generation – Precision Forestry in Finland. Forests, 2014, 5, 1682-1694.	0.9	133
32	International Benchmarking of the Individual Tree Detection Methods for Modeling 3-D Canopy Structure for Silviculture and Forest Ecology Using Airborne Laser Scanning. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5011-5027.	2.7	129
33	Change Detection Techniques for Canopy Height Growth Measurements Using Airborne Laser Scanner Data. Photogrammetric Engineering and Remote Sensing, 2006, 72, 1339-1348.	0.3	120
34	Automatic Stem Mapping by Merging Several Terrestrial Laser Scans at the Feature and Decision Levels. Sensors, 2013, 13, 1614-1634.	2.1	119
35	Backscattering properties of boreal forests at the C- and X-bands. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 1041-1050.	2.7	117
36	Tree Classification with Fused Mobile Laser Scanning and Hyperspectral Data. Sensors, 2011, 11, 5158-5182.	2.1	116

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37	Tree mapping using airborne, terrestrial and mobile laser scanning – A case study in a heterogeneous urban forest. <i>Urban Forestry and Urban Greening</i> , 2013, 12, 546-553.	2.3	106
38	The Use of a Mobile Laser Scanning System for Mapping Large Forest Plots. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1504-1508.	1.4	105
39	Feasibility of Terrestrial laser scanning for collecting stem volume information from single trees. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 123, 140-158.	4.9	105
40	Radiometric Calibration of LIDAR Intensity With Commercially Available Reference Targets. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 588-598.	2.7	104
41	Automatic Detection of Buildings and Changes in Buildings for Updating of Maps. <i>Remote Sensing</i> , 2010, 2, 1217-1248.	1.8	103
42	Object-based analysis of multispectral airborne laser scanner data for land cover classification and map updating. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 128, 298-313.	4.9	101
43	Range and AGC normalization in airborne discrete-return LiDAR intensity data for forest canopies. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2010, 65, 369-379.	4.9	100
44	Comparison of Laser and Stereo Optical, SAR and InSAR Point Clouds from Air- and Space-Borne Sources in the Retrieval of Forest Inventory Attributes. <i>Remote Sensing</i> , 2015, 7, 15933-15954.	1.8	100
45	An Integrated GNSS/INS/LiDAR-SLAM Positioning Method for Highly Accurate Forest Stem Mapping. <i>Remote Sensing</i> , 2017, 9, 3.	1.8	100
46	LiDAR Scan Matching Aided Inertial Navigation System in GNSS-Denied Environments. <i>Sensors</i> , 2015, 15, 16710-16728.	2.1	99
47	Performance of dense digital surface models based on image matching in the estimation of plot-level forest variables. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 83, 104-115.	4.9	97
48	Study of Surface Brightness From Backscattered Laser Intensity: Calibration of Laser Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2005, 2, 255-259.	1.4	95
49	Accuracy of Kinematic Positioning Using Global Satellite Navigation Systems under Forest Canopies. <i>Forests</i> , 2015, 6, 3218-3236.	0.9	95
50	Single-Sensor Solution to Tree Species Classification Using Multispectral Airborne Laser Scanning. <i>Remote Sensing</i> , 2017, 9, 108.	1.8	95
51	Comparison of Area-Based and Individual Tree-Based Methods for Predicting Plot-Level Forest Attributes. <i>Remote Sensing</i> , 2010, 2, 1481-1495.	1.8	94
52	Object Classification and Recognition From Mobile Laser Scanning Point Clouds in a Road Environment. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 1226-1239.	2.7	93
53	Retrieval of Forest Aboveground Biomass and Stem Volume with Airborne Scanning LiDAR. <i>Remote Sensing</i> , 2013, 5, 2257-2274.	1.8	92
54	Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 5117-5132.	2.7	90

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55	Possibilities of a Personal Laser Scanning System for Forest Mapping and Ecosystem Services. <i>Sensors</i> , 2014, 14, 1228-1248.	2.1	88
56	Laser scanning applications in fluvial studies. <i>Progress in Physical Geography</i> , 2011, 35, 782-809.	1.4	86
57	Combination of individual tree detection and area-based approach in imputation of forest variables using airborne laser data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2012, 67, 73-79.	4.9	86
58	Fully-Automated Power Line Extraction from Airborne Laser Scanning Point Clouds in Forest Areas. <i>Remote Sensing</i> , 2014, 6, 11267-11282.	1.8	85
59	Autonomous Collection of Forest Field Reference – The Outlook and a First Step with UAV Laser Scanning. <i>Remote Sensing</i> , 2017, 9, 785.	1.8	85
60	The Use of a Hand-Held Camera for Individual Tree 3D Mapping in Forest Sample Plots. <i>Remote Sensing</i> , 2014, 6, 6587-6603.	1.8	84
61	Under-canopy UAV laser scanning for accurate forest field measurements. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 164, 41-60.	4.9	83
62	Benchmarking the Performance of Mobile Laser Scanning Systems Using a Permanent Test Field. <i>Sensors</i> , 2012, 12, 12814-12835.	2.1	82
63	Model-assisted estimation of growing stock volume using different combinations of LiDAR and Landsat data as auxiliary information. <i>Remote Sensing of Environment</i> , 2015, 158, 431-440.	4.6	80
64	Assessing Precision in Conventional Field Measurements of Individual Tree Attributes. <i>Forests</i> , 2017, 8, 38.	0.9	80
65	In-situ measurements from mobile platforms: An emerging approach to address the old challenges associated with forest inventories. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 143, 97-107.	4.9	78
66	Morphological changes on meander point bars associated with flow structure at different discharges. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 577-590.	1.2	77
67	Accurate derivation of stem curve and volume using backpack mobile laser scanning. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 161, 246-262.	4.9	77
68	Toward Hyperspectral Lidar: Measurement of Spectral Backscatter Intensity With a Supercontinuum Laser Source. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2007, 4, 211-215.	1.4	76
69	Mapping Topography Changes and Elevation Accuracies Using a Mobile Laser Scanner. <i>Remote Sensing</i> , 2011, 3, 587-600.	1.8	75
70	Graph SLAM correction for single scanner MLS forest data under boreal forest canopy. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 132, 199-209.	4.9	75
71	Land-cover classification using multitemporal ERS-1/2 insar data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 1620-1628.	2.7	74
72	Brightness Measurements and Calibration With Airborne and Terrestrial Laser Scanners. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 528-534.	2.7	73

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73	Annual bank and point bar morphodynamics of a meandering river determined by high-accuracy multitemporal laser scanning and flow data. <i>Water Resources Research</i> , 2014, 50, 5532-5559.	1.7	72
74	SLAM-Aided Stem Mapping for Forest Inventory with Small-Footprint Mobile LiDAR. <i>Forests</i> , 2015, 6, 4588-4606.	0.9	72
75	Stem biomass estimation based on stem reconstruction from terrestrial laser scanning point clouds. <i>Remote Sensing Letters</i> , 2013, 4, 344-353.	0.6	70
76	Comparison of Backpack, Handheld, Under-Canopy UAV, and Above-Canopy UAV Laser Scanning for Field Reference Data Collection in Boreal Forests. <i>Remote Sensing</i> , 2020, 12, 3327.	1.8	70
77	The Accuracy Comparison of Three Simultaneous Localization and Mapping (SLAM)-Based Indoor Mapping Technologies. <i>Sensors</i> , 2018, 18, 3228.	2.1	68
78	Prediction of plot-level forest variables using TerraSAR-X stereo SAR data. <i>Remote Sensing of Environment</i> , 2012, 117, 338-347.	4.6	63
79	Assessing Biodiversity in Boreal Forests with UAV-Based Photogrammetric Point Clouds and Hyperspectral Imaging. <i>Remote Sensing</i> , 2018, 10, 338.	1.8	61
80	Confirmation of post-harvest spectral recovery from Landsat time series using measures of forest cover and height derived from airborne laser scanning data. <i>Remote Sensing of Environment</i> , 2018, 216, 262-275.	4.6	60
81	Diameter distribution estimation with laser scanning based multisource single tree inventory. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 108, 161-171.	4.9	59
82	Classification of Spruce and Pine Trees Using Active Hyperspectral LiDAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1138-1141.	1.4	58
83	The Use of Airborne and Mobile Laser Scanning for Modeling Railway Environments in 3D. <i>Remote Sensing</i> , 2014, 6, 3075-3100.	1.8	58
84	Comparison of two-dimensional multitemporal Sentinel-2 data with three-dimensional remote sensing data sources for forest inventory parameter estimation over a boreal forest. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 76, 167-178.	1.4	57
85	Detecting Changes in Forest Structure over Time with Bi-Temporal Terrestrial Laser Scanning Data. <i>ISPRS International Journal of Geo-Information</i> , 2012, 1, 242-255.	1.4	56
86	Uncertainty in timber assortment estimates predicted from forest inventory data. <i>European Journal of Forest Research</i> , 2010, 129, 1131-1142.	1.1	53
87	Photorealistic Building Reconstruction from Mobile Laser Scanning Data. <i>Remote Sensing</i> , 2011, 3, 1406-1426.	1.8	53
88	Feasibility of Google Tango and Kinect for Crowdsourcing Forestry Information. <i>Forests</i> , 2018, 9, 6.	0.9	53
89	In situ biomass estimation at tree and plot levels: What did data record and what did algorithms derive from terrestrial and aerial point clouds in boreal forest. <i>Remote Sensing of Environment</i> , 2019, 232, 111309.	4.6	53
90	Applicability of airborne profiling radar to forest inventory. <i>Remote Sensing of Environment</i> , 1996, 57, 39-57.	4.6	52

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91	Classification of Defoliated Trees Using Tree-Level Airborne Laser Scanning Data Combined with Aerial Images. <i>Remote Sensing</i> , 2010, 2, 2665-2679.	1.8	51
92	The seasonal behavior of interferometric coherence in boreal forest. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 820-829.	2.7	50
93	Correcting Airborne Laser Scanning Intensity Data for Automatic Gain Control Effect. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2010, 7, 511-514.	1.4	50
94	Geometric test field calibration of digital photogrammetric sensors. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2006, 60, 387-399.	4.9	48
95	Small-footprint Laser Scanning Simulator for System Validation, Error Assessment, and Algorithm Development. <i>Photogrammetric Engineering and Remote Sensing</i> , 2009, 75, 1177-1189.	0.3	47
96	Effects of Individual Tree Detection Error Sources on Forest Management Planning Calculations. <i>Remote Sensing</i> , 2011, 3, 1614-1626.	1.8	47
97	A helicopter-borne eight-channel ranging scatterometer for remote sensing. I. System description. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1993, 31, 161-169.	2.7	46
98	Assessment of Low Density Full-Waveform Airborne Laser Scanning for Individual Tree Detection and Tree Species Classification. <i>Forests</i> , 2014, 5, 1011-1031.	0.9	46
99	NAVIS-An UGV Indoor Positioning System Using Laser Scan Matching for Large-Area Real-Time Applications. <i>Sensors</i> , 2014, 14, 11805-11824.	2.1	46
100	Accuracy in estimation of timber assortments and stem distribution – A comparison of airborne and terrestrial laser scanning techniques. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 97, 89-97.	4.9	46
101	Sub-bend scale flow-sediment interaction of meander bends – A combined approach of field observations, close-range remote sensing and computational modelling. <i>Geomorphology</i> , 2015, 238, 119-134.	1.1	46
102	A 10-nm Spectral Resolution Hyperspectral LiDAR System Based on an Acousto-Optic Tunable Filter. <i>Sensors</i> , 2019, 19, 1620.	2.1	46
103	From TLS to VLS: Biomass Estimation at Individual Tree Level. <i>Remote Sensing</i> , 2010, 2, 1864-1879.	1.8	45
104	A comprehensive but efficient framework of proposing and validating feature parameters from airborne LiDAR data for tree species classification. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 46, 45-55.	1.4	45
105	A Permanent Test Field for Digital Photogrammetric Systems. <i>Photogrammetric Engineering and Remote Sensing</i> , 2008, 74, 95-106.	0.3	44
106	Single tree biomass modelling using airborne laser scanning. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 85, 66-73.	4.9	43
107	Automated matching of multiple terrestrial laser scans for stem mapping without the use of artificial references. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 56, 13-23.	1.4	43
108	Fast Fingerprint Database Maintenance for Indoor Positioning Based on UGV SLAM. <i>Sensors</i> , 2015, 15, 5311-5330.	2.1	41

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109	Characterizing 3D City Modeling Projects: Towards a Harmonized Interoperable System. ISPRS International Journal of Geo-Information, 2018, 7, 55.	1.4	41
110	Calibration of laser-derived tree height estimates by means of photogrammetric techniques. Scandinavian Journal of Forest Research, 2004, 19, 524-528.	0.5	40
111	Individual Tree Species Classification by Illuminatedâ€”Shaded Area Separation. Remote Sensing, 2010, 2, 19-35.	1.8	40
112	Laser Scanning in Forests. Remote Sensing, 2012, 4, 2919-2922.	1.8	40
113	Estimation of the Timber Quality of Scots Pine with Terrestrial Laser Scanning. Forests, 2014, 5, 1879-1895.	0.9	40
114	Twoâ€”dimensional and threeâ€”dimensional computational models in hydrodynamic and morphodynamic reconstructions of a river bend: sensitivity and functionality. Hydrological Processes, 2015, 29, 1604-1629.	1.1	40
115	Mapping of urban roadside trees â€” A case study in the tree register update process in Helsinki City. Urban Forestry and Urban Greening, 2014, 13, 562-570.	2.3	38
116	TerraSAR-X Stereo Radargrammetry and Airborne Scanning LiDAR Height Metrics in Imputation of Forest Aboveground Biomass and Stem Volume. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1197-1204.	2.7	38
117	Feasibility Study of Ore Classification Using Active Hyperspectral LiDAR. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1785-1789.	1.4	38
118	Effects of stand size on the accuracy of remote sensing-based forest inventory. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 2613-2621.	2.7	37
119	Absolute Radiometric Calibration of ALS Intensity Data: Effects on Accuracy and Target Classification. Sensors, 2011, 11, 10586-10602.	2.1	37
120	Spherical cap harmonic analysis of the Arctic ionospheric TEC for one solar cycle. Journal of Geophysical Research: Space Physics, 2014, 119, 601-619.	0.8	37
121	Urban-Tree-Attribute Update Using Multisource Single-Tree Inventory. Forests, 2014, 5, 1032-1052.	0.9	35
122	Satellite microwave radiometry of forest and surface types in Finland. IEEE Transactions on Geoscience and Remote Sensing, 1988, 26, 622-628.	2.7	34
123	A helicopter-borne eight-channel ranging scatterometer for remote sensing. II. Forest inventory. IEEE Transactions on Geoscience and Remote Sensing, 1993, 31, 170-179.	2.7	34
124	Data Processing and Quality Evaluation of a Boat-Based Mobile Laser Scanning System. Sensors, 2013, 13, 12497-12515.	2.1	34
125	Comparison of Tree Species Classifications at the Individual Tree Level by Combining ALS Data and RGB Images Using Different Algorithms. Remote Sensing, 2016, 8, 1034.	1.8	34
126	Multisource Single-Tree Inventory in the Prediction of Tree Quality Variables and Logging Recoveries. Remote Sensing, 2014, 6, 3475-3491.	1.8	33

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127	Effects of sample size and model form on the accuracy of model-based estimators of growing stock volume. <i>Canadian Journal of Forest Research</i> , 2015, 45, 1524-1534.	0.8	33
128	Quantitative Assessment of Scots Pine (<i>Pinus Sylvestris</i> L.) Whorl Structure in a Forest Environment Using Terrestrial Laser Scanning. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 3598-3607.	2.3	33
129	Characterizing Seedling Stands Using Leaf-Off and Leaf-On Photogrammetric Point Clouds and Hyperspectral Imagery Acquired from Unmanned Aerial Vehicle. <i>Forests</i> , 2019, 10, 415.	0.9	33
130	Assessing the effects of thinning on stem growth allocation of individual Scots pine trees. <i>Forest Ecology and Management</i> , 2020, 474, 118344.	1.4	33
131	The potential of dual-wavelength terrestrial lidar in early detection of <i>Ips typographus</i> (L.) infestation – Leaf water content as a proxy. <i>Remote Sensing of Environment</i> , 2019, 231, 111264.	4.6	32
132	Feasibility of Multispectral Airborne Laser Scanning Data for Road Mapping. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 294-298.	1.4	31
133	Variability of wood properties using airborne and terrestrial laser scanning. <i>Remote Sensing of Environment</i> , 2019, 235, 111474.	4.6	31
134	Comparing Accuracy of Airborne Laser Scanning and TerraSAR-X Radar Images in the Estimation of Plot-Level Forest Variables. <i>Remote Sensing</i> , 2010, 2, 432-445.	1.8	30
135	Mobile laser scanning in fluvial geomorphology: mapping and change detection of point bars. <i>Zeitschrift für Geomorphologie</i> , 2011, 55, 31-50.	0.3	30
136	Measuring Leaf Water Content with Dual-Wavelength Intensity Data from Terrestrial Laser Scanners. <i>Remote Sensing</i> , 2017, 9, 8.	1.8	30
137	Evaluation of a Smartphone App for Forest Sample Plot Measurements. <i>Forests</i> , 2015, 6, 1179-1194.	0.9	29
138	An Algorithm for Automatic Road Asphalt Edge Delineation from Mobile Laser Scanner Data Using the Line Clouds Concept. <i>Remote Sensing</i> , 2016, 8, 740.	1.8	29
139	Semantic segmentation of road furniture in mobile laser scanning data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 154, 98-113.	4.9	29
140	Area-Based Mapping of Defoliation of Scots Pine Stands Using Airborne Scanning LiDAR. <i>Remote Sensing</i> , 2013, 5, 1220-1234.	1.8	28
141	Gravel transport by ice in a subarctic river from accurate laser scanning. <i>Geomorphology</i> , 2015, 246, 113-122.	1.1	28
142	A Long-Term Terrestrial Laser Scanning Measurement Station to Continuously Monitor Structural and Phenological Dynamics of Boreal Forest Canopy. <i>Frontiers in Plant Science</i> , 2020, 11, 606752.	1.7	28
143	Intelligent Open Data 3D Maps in a Collaborative Virtual World. <i>ISPRS International Journal of Geo-Information</i> , 2015, 4, 837-857.	1.4	27
144	The effect of TLS point cloud sampling on tree detection and diameter measurement accuracy. <i>Remote Sensing Letters</i> , 2016, 7, 495-502.	0.6	27

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145	Investigating the Feasibility of Multi-Scan Terrestrial Laser Scanning to Characterize Tree Communities in Southern Boreal Forests. <i>Remote Sensing</i> , 2019, 11, 1423.	1.8	27
146	Radar-derived standwise forest inventory. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1997, 35, 392-404.	2.7	26
147	Comparison of measurement techniques and static theory applied to concrete beam deformation. <i>Photogrammetric Record</i> , 2009, 24, 351-371.	0.4	25
148	Tree Height Growth Measurement with Single-Scan Airborne, Static Terrestrial and Mobile Laser Scanning. <i>Sensors</i> , 2012, 12, 12798-12813.	2.1	25
149	Multiecho-Recording Mobile Laser Scanning for Enhancing Individual Tree Crown Reconstruction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 4323-4332.	2.7	25
150	A Liquid Crystal Tunable Filter-Based Hyperspectral LiDAR System and Its Application on Vegetation Red Edge Detection. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 291-295.	1.4	25
151	Agricultural Monitoring Using Envisat Alternating Polarization SAR Images. <i>Photogrammetric Engineering and Remote Sensing</i> , 2008, 74, 117-126.	0.3	24
152	Luminance-Corrected 3D Point Clouds for Road and Street Environments. <i>Remote Sensing</i> , 2015, 7, 11389-11402.	1.8	24
153	Effects of positional errors in model-assisted and model-based estimation of growing stock volume. <i>Remote Sensing of Environment</i> , 2016, 172, 101-108.	4.6	24
154	Forest stand age classification using time series of photogrammetrically derived digital surface models. <i>Scandinavian Journal of Forest Research</i> , 2016, 31, 194-205.	0.5	24
155	An overview of the laser ranging method of space laser altimeter. <i>Infrared Physics and Technology</i> , 2017, 86, 147-158.	1.3	24
156	Assessing branching structure for biomass and wood quality estimation using terrestrial laser scanning point clouds. <i>Canadian Journal of Remote Sensing</i> , 2018, 44, 462-475.	1.1	24
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158	Examining Changes in Stem Taper and Volume Growth with Two-Date 3D Point Clouds. <i>Forests</i> , 2019, 10, 382.	0.9	24
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