

Pasi Raumonon

List of Publications by Year in descending order

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50
papers

2,609
citations

331670

21
h-index

214800

47
g-index

52
all docs

52
docs citations

52
times ranked

2242
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Automatic Precision Tree Models from Terrestrial Laser Scanner Data. <i>Remote Sensing</i> , 2013, 5, 491-520.	4.0	528
2	Nondestructive estimates of above-ground biomass using terrestrial laser scanning. <i>Methods in Ecology and Evolution</i> , 2015, 6, 198-208.	5.2	449
3	SimpleTree – An Efficient Open Source Tool to Build Tree Models from TLS Clouds. <i>Forests</i> , 2015, 6, 4245-4294.	2.1	226
4	Estimation of above-ground biomass of large tropical trees with terrestrial LiDAR. <i>Methods in Ecology and Evolution</i> , 2018, 9, 223-234.	5.2	166
5	Non-destructive tree volume estimation through quantitative structure modelling: Comparing UAV laser scanning with terrestrial LIDAR. <i>Remote Sensing of Environment</i> , 2019, 233, 111355.	11.0	125
6	Realistic Forest Stand Reconstruction from Terrestrial LiDAR for Radiative Transfer Modelling. <i>Remote Sensing</i> , 2018, 10, 933.	4.0	94
7	Quantifying branch architecture of tropical trees using terrestrial LiDAR and 3D modelling. <i>Trees - Structure and Function</i> , 2018, 32, 1219-1231.	1.9	90
8	Automatic tree species recognition with quantitative structure models. <i>Remote Sensing of Environment</i> , 2017, 191, 1-12.	11.0	87
9	Neighbour species richness and local structural variability modulate aboveground allocation patterns and crown morphology of individual trees. <i>Ecology Letters</i> , 2019, 22, 2130-2140.	6.4	80
10	Change Detection of Tree Biomass with Terrestrial Laser Scanning and Quantitative Structure Modelling. <i>Remote Sensing</i> , 2014, 6, 3906-3922.	4.0	79
11	Analysis of Geometric Primitives in Quantitative Structure Models of Tree Stems. <i>Remote Sensing</i> , 2015, 7, 4581-4603.	4.0	63
12	Measuring stem diameters with TLS in boreal forests by complementary fitting procedure. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 147, 294-306.	11.1	58
13	How management intensity and neighborhood composition affect the structure of beech (<i>Fagus</i>) Tj ETQq1 1 0.784314 rgBT /Overloc 1.9 57	11.0	57
14	Tree Biomass Equations from Terrestrial LiDAR: A Case Study in Guyana. <i>Forests</i> , 2019, 10, 527.	2.1	46
15	Tree species classification using structural features derived from terrestrial laser scanning. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 168, 170-181.	11.1	41
16	Simulating solar-induced chlorophyll fluorescence in a boreal forest stand reconstructed from terrestrial laser scanning measurements. <i>Remote Sensing of Environment</i> , 2019, 232, 111274.	11.0	37
17	Non-intersecting leaf insertion algorithm for tree structure models. <i>Interface Focus</i> , 2018, 8, 20170045.	3.0	34
18	Observing ecosystems with lightweight, rapid-scanning terrestrial lidar scanners. <i>Remote Sensing in Ecology and Conservation</i> , 2016, 2, 174-189.	4.3	31

#	ARTICLE	IF	CITATIONS
19	Tree Root System Characterization and Volume Estimation by Terrestrial Laser Scanning and Quantitative Structure Modeling. <i>Forests</i> , 2014, 5, 3274-3294.	2.1	25
20	Predicting tree structure from tree height using terrestrial laser scanning and quantitative structure models. <i>Silva Fennica</i> , 2014, 48, .	1.3	25
21	Estimating tree stem diameters and volume from smartphone photogrammetric point clouds. <i>Forestry</i> , 2020, 93, 411-429.	2.3	24
22	Segmentation of vessel structures from photoacoustic images with reliability assessment. <i>Biomedical Optics Express</i> , 2018, 9, 2887.	2.9	22
23	Indirect emissions of forest bioenergy: detailed modeling of stump&euroroot systems. <i>GCB Bioenergy</i> , 2014, 6, 777-784.	5.6	21
24	A New Architectural Perspective on Wind Damage in a Natural Forest. <i>Frontiers in Forests and Global Change</i> , 2019, 1, .	2.3	20
25	Evaluation of automated pipelines for tree and plot metric estimation from TLS data in tropical forest areas. <i>Annals of Botany</i> , 2021, 128, 753-766.	2.9	19
26	Improving TLS-based stem volume estimates by field measurements. <i>Computers and Electronics in Agriculture</i> , 2021, 180, 105882.	7.7	15
27	Terrestrial laser scanning for non-destructive estimates of liana stem biomass. <i>Forest Ecology and Management</i> , 2020, 456, 117751.	3.2	14
28	ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition. <i>Sensors</i> , 2020, 20, 4878.	3.8	14
29	Shifts in structural diversity of Amazonian forest edges detected using terrestrial laser scanning. <i>Remote Sensing of Environment</i> , 2022, 271, 112895.	11.0	12
30	Manifolds in electromagnetism and superconductor modelling: Using their properties to model critical current of twisted conductors in self-field with 2-D model. <i>Cryogenics</i> , 2013, 53, 135-141.	1.7	11
31	Data-based stochastic modeling of tree growth and structure formation. <i>Silva Fennica</i> , 2016, 50, .	1.3	10
32	Optimization of large-area OLED current distribution grids with self-aligned passivation. <i>Organic Electronics</i> , 2014, 15, 3431-3438.	2.6	9
33	Integrating terrestrial laser scanning with functional"structural plant models to investigate ecological and evolutionary processes of forest communities. <i>Annals of Botany</i> , 2021, 128, 663-684.	2.9	9
34	Dimensional Reduction in Electromagnetic Boundary Value Problems. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 1146-1149.	2.1	8
35	Dimensional reduction of electromagnetic boundary value problems. <i>Boundary Value Problems</i> , 2011, 2011, .	0.7	7
36	Kriging prediction of stand-level forest information using mobile laser scanning data adjusted for nondetection. <i>Canadian Journal of Forest Research</i> , 2017, 47, 1257-1265.	1.7	6

#	ARTICLE	IF	CITATIONS
37	Applications of manifolds: mesh generation. IET Science, Measurement and Technology, 2008, 2, 286.	1.6	5
38	Parametric Models in Quasi-Static Electromagnetics. IEEE Transactions on Magnetics, 2009, 45, 944-947.	2.1	5
39	Size Is in the Eye of the Beholder: Technique for Nondestructive Detection of Parameterized Defects. IEEE Transactions on Magnetics, 2010, 46, 3006-3009.	2.1	5
40	Testing the effects of reflow on tantalum capacitors. Microelectronics Reliability, 2010, 50, 1650-1653.	1.7	5
41	Bayes Forest: a data-intensive generator of morphological tree clones. GigaScience, 2017, 6, 1-13.	6.4	5
42	A study of crown development mechanisms using a shoot-based tree model and segmented terrestrial laser scanning data. Annals of Botany, 2018, 122, 423-434.	2.9	5
43	Modifications of the 85/85 test and the temperature cycling test for tantalum capacitors. Soldering and Surface Mount Technology, 2011, 23, 168-176.	1.5	4
44	Comprehensive quantitative tree models from TLS data. , 2012, , .		3
45	Perspectives for Wearable Electronics in Healthcare and Childcare. E-health Telecommunication Systems and Networks, 2013, 02, 58-63.	0.5	2
46	Testing the Effects of Seacoast Atmosphere on Tantalum Capacitors. Active and Passive Electronic Components, 2011, 2011, 1-9.	0.3	1
47	Two-part stretchable passive UHF RFID textile tags. , 2017, , .		1
48	Do trees have constant branch divergence angles?. Journal of Theoretical Biology, 2021, 512, 110567.	1.7	1
49	Phyllotaxis transition over the lifespan of a palm tree using Magnetic Resonance Imaging (MRI) and Terrestrial Laser Scanning (TLS): the case of Jubaea chilensis. Plant Methods, 2022, 18, .	4.3	1
50	ClothFace: Battery-Free On-body Interface Platform for Future Human-Machine Interaction. , 2022, , .		0