

Rasmus Astrup

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10467617/publications.pdf>

Version: 2024-02-01

50
papers

2,194
citations

172457

29
h-index

223800

46
g-index

50
all docs

50
docs citations

50
times ranked

2611
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping forests using an unmanned ground vehicle with 3D LiDAR and graph-SLAM. <i>Computers and Electronics in Agriculture</i> , 2018, 145, 217-225.	7.7	146
2	Moose <i>Alces alces</i> habitat use at multiple temporal scales in a human-altered landscape. <i>Wildlife Biology</i> , 2011, 17, 44-54.	1.4	114
3	Remote sensing and forest inventories in Nordic countries – roadmap for the future. <i>Scandinavian Journal of Forest Research</i> , 2018, 33, 397-412.	1.4	111
4	Comparison of carbon estimation methods for European forests. <i>Forest Ecology and Management</i> , 2016, 361, 397-420.	3.2	106
5	Monitoring spruce volume and biomass with InSAR data from TanDEM-X. <i>Remote Sensing of Environment</i> , 2013, 139, 60-67.	11.0	104
6	Comparison of four types of 3D data for timber volume estimation. <i>Remote Sensing of Environment</i> , 2014, 155, 325-333.	11.0	103
7	Estimating spruce and pine biomass with interferometric X-band SAR. <i>Remote Sensing of Environment</i> , 2010, 114, 2353-2360.	11.0	102
8	Estimating biomass in Hedmark County, Norway using national forest inventory field plots and airborne laser scanning. <i>Remote Sensing of Environment</i> , 2012, 123, 443-456.	11.0	102
9	Small area estimation of forest attributes in the Norwegian National Forest Inventory. <i>European Journal of Forest Research</i> , 2012, 131, 1255-1267.	2.5	95
10	Recruitment limitation in forests: Lessons from an unprecedented mountain pine beetle epidemic. <i>Forest Ecology and Management</i> , 2008, 256, 1743-1750.	3.2	70
11	Approaches for estimating stand-level volume using terrestrial laser scanning in a single-scan mode. <i>Canadian Journal of Forest Research</i> , 2014, 44, 666-676.	1.7	68
12	Competitive interactions across a soil fertility gradient in a multispecies forest. <i>Journal of Ecology</i> , 2013, 101, 806-818.	4.0	64
13	Climate change implications of shifting forest management strategy in a boreal forest ecosystem of Norway. <i>Global Change Biology</i> , 2014, 20, 607-621.	9.5	51
14	Empirical coverage of model-based variance estimators for remote sensing assisted estimation of stand-level timber volume. <i>Remote Sensing of Environment</i> , 2016, 173, 274-281.	11.0	51
15	A century of National Forest Inventory in Norway – informing past, present, and future decisions. <i>Forest Ecosystems</i> , 2020, 7, 46.	3.1	51
16	Tree-Stump Detection, Segmentation, Classification, and Measurement Using Unmanned Aerial Vehicle (UAV) Imagery. <i>Forests</i> , 2018, 9, 102.	2.1	50
17	Estimating single-tree branch biomass of Norway spruce with terrestrial laser scanning using voxel-based and crown dimension features. <i>Scandinavian Journal of Forest Research</i> , 2013, 28, 456-469.	1.4	48
18	Estimating Soil Displacement from Timber Extraction Trails in Steep Terrain: Application of an Unmanned Aircraft for 3D Modelling. <i>Forests</i> , 2014, 5, 1212-1223.	2.1	42

#	ARTICLE	IF	CITATIONS
19	Creating a Regional MODIS Satellite-Driven Net Primary Production Dataset for European Forests. <i>Remote Sensing</i> , 2016, 8, 554.	4.0	39
20	Estimating Single-Tree Crown Biomass of Norway Spruce by Airborne Laser Scanning: A Comparison of Methods with and without the Use of Terrestrial Laser Scanning to Obtain the Ground Reference Data. <i>Forests</i> , 2014, 5, 384-403.	2.1	37
21	Deriving forest monitoring variables from X-band InSAR SRTM height. <i>Canadian Journal of Remote Sensing</i> , 2010, 36, 68-79.	2.4	36
22	Measuring wheel ruts with close-range photogrammetry. <i>Forestry</i> , 2016, 89, 383-391.	2.3	34
23	Finding the appropriate level of complexity for a simulation model: An example with a forest growth model. <i>Forest Ecology and Management</i> , 2008, 256, 1659-1665.	3.2	33
24	Empirical harvest models and their use in regional business-as-usual scenarios of timber supply and carbon stock development. <i>Scandinavian Journal of Forest Research</i> , 2012, 27, 379-392.	1.4	33
25	Unit-level and area-level small area estimation under heteroscedasticity using digital aerial photogrammetry data. <i>Remote Sensing of Environment</i> , 2018, 212, 199-211.	11.0	33
26	Digital aerial photogrammetry can efficiently support large-area forest inventories in Norway. <i>Forestry</i> , 2017, 90, 710-718.	2.3	32
27	Stand recovery and self-organization following large-scale mountain pine beetle induced canopy mortality in northern forests. <i>Forest Ecology and Management</i> , 2013, 310, 300-311.	3.2	31
28	Forest Parameter Prediction Using an Image-Based Point Cloud: A Comparison of Semi-ITC with ABA. <i>Forests</i> , 2015, 6, 4059-4071.	2.1	31
29	Carbon-equivalent metrics for albedo changes in land management contexts: relevance of the time dimension. <i>Ecological Applications</i> , 2016, 26, 1868-1880.	3.8	30
30	Forest information at multiple scales: development, evaluation and application of the Norwegian forest resources map SR16. <i>Scandinavian Journal of Forest Research</i> , 2019, 34, 484-496.	1.4	30
31	Browsing of willow (<i>Salix caprea</i> L.) and rowan (<i>Sorbus aucuparia</i> L.) in the context of life history strategies: a literature review. <i>European Journal of Forest Research</i> , 2013, 132, 399-409.	2.5	27
32	Empirical models of monthly and annual albedo in managed boreal forests of interior Norway. <i>Climatic Change</i> , 2013, 120, 183-196.	3.6	27
33	Temporal Stability of X-Band Single-Pass InSAR Heights in a Spruce Forest: Effects of Acquisition Properties and Season. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 1607-1614.	6.3	27
34	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
35	Large scale mapping of forest attributes using heterogeneous sets of airborne laser scanning and National Forest Inventory data. <i>Forest Ecosystems</i> , 2021, 8, 65.	3.1	25
36	An operational UAV-based approach for stand-level assessment of soil disturbance after forest harvesting. <i>Scandinavian Journal of Forest Research</i> , 2018, 33, 387-396.	1.4	22

#	ARTICLE	IF	CITATIONS
37	Detection of Forest Clear-Cuts with Shuttle Radar Topography Mission (SRTM) and Tandem-X InSAR Data. <i>Remote Sensing</i> , 2013, 5, 5449-5462.	4.0	21
38	Multiple resource limitation and ontogeny combined: a growth rate comparison of three co-occurring conifers. <i>Canadian Journal of Forest Research</i> , 2012, 42, 99-110.	1.7	18
39	Cooling aerosols and changes in albedo counteract warming from CO2 and black carbon from forest bioenergy in Norway. <i>Scientific Reports</i> , 2018, 8, 3299.	3.3	18
40	Comparison of Forest Attributes Derived from Two Terrestrial Lidar Systems. <i>Photogrammetric Engineering and Remote Sensing</i> , 2013, 79, 245-257.	0.6	16
41	Post-stratified change estimation for large-area forest biomass using repeated ALS strip sampling. <i>Canadian Journal of Forest Research</i> , 2017, 47, 839-847.	1.7	14
42	An enhanced forest classification scheme for modeling vegetation-climate interactions based on national forest inventory data. <i>Biogeosciences</i> , 2018, 15, 399-412.	3.3	13
43	Sapling leaf trait responses to light, tree height and soil nutrients for three conifer species of contrasting shade tolerance. <i>Tree Physiology</i> , 2014, 34, 1334-1347.	3.1	12
44	Assessing Harvested Sites in a Forested Boreal Mountain Catchment through Global Forest Watch. <i>Remote Sensing</i> , 2019, 11, 543.	4.0	12
45	Timber volume estimation based on airborne laser scanning – comparing the use of national forest inventory and forest management inventory data. <i>Annals of Forest Science</i> , 2021, 78, 1.	2.0	12
46	Improving living biomass C-stock loss estimates by combining optical satellite, airborne laser scanning, and NFI data. <i>Canadian Journal of Forest Research</i> , 2021, 51, 1472-1485.	1.7	9
47	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
48	Prediction and model-assisted estimation of diameter distributions using Norwegian national forest inventory and airborne laser scanning data. <i>Canadian Journal of Forest Research</i> , 0, , .	1.7	6
49	Empirical models of albedo transitions in managed boreal forests: analysis of performance and transportability. <i>Canadian Journal of Forest Research</i> , 2015, 45, 195-206.	1.7	5
50	Mapping wheel-ruts from timber harvesting operations using deep learning techniques in drone imagery. <i>Forestry</i> , 0, , .	2.3	2