

Felix Morsdorf

List of Publications by Year in descending order

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61
papers

4,352
citations

126907

33
h-index

149698

56
g-index

63
all docs

63
docs citations

63
times ranked

4369
citing authors

#	ARTICLE	IF	CITATIONS
1	An International Comparison of Individual Tree Detection and Extraction Using Airborne Laser Scanning. <i>Remote Sensing</i> , 2012, 4, 950-974.	4.0	376
2	Estimation of LAI and fractional cover from small footprint airborne laser scanning data based on gap fraction. <i>Remote Sensing of Environment</i> , 2006, 104, 50-61.	11.0	371
3	LIDAR-based geometric reconstruction of boreal type forest stands at single tree level for forest and wildland fire management. <i>Remote Sensing of Environment</i> , 2004, 92, 353-362.	11.0	307
4	Mapping functional diversity from remotely sensed morphological and physiological forest traits. <i>Nature Communications</i> , 2017, 8, 1441.	12.8	214
5	Forest Canopy Gap Fraction From Terrestrial Laser Scanning. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2007, 4, 157-160.	3.1	194
6	Fusion of imaging spectrometer and LIDAR data over combined radiative transfer models for forest canopy characterization. <i>Remote Sensing of Environment</i> , 2007, 106, 449-459.	11.0	172
7	The fourth phase of the radiative transfer model intercomparison (RAMI) exercise: Actual canopy scenarios and conformity testing. <i>Remote Sensing of Environment</i> , 2015, 169, 418-437.	11.0	170
8	Multi-source land cover classification for forest fire management based on imaging spectrometry and LiDAR data. <i>Forest Ecology and Management</i> , 2008, 256, 263-271.	3.2	157
9	Radiative transfer modeling within a heterogeneous canopy for estimation of forest fire fuel properties. <i>Remote Sensing of Environment</i> , 2004, 92, 332-344.	11.0	147
10	Assessing forest structural and physiological information content of multi-spectral LiDAR waveforms by radiative transfer modelling. <i>Remote Sensing of Environment</i> , 2009, 113, 2152-2163.	11.0	146
11	International Benchmarking of the Individual Tree Detection Methods for Modeling 3-D Canopy Structure for Silviculture and Forest Ecology Using Airborne Laser Scanning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 5011-5027.	6.3	129
12	Discrimination of vegetation strata in a multi-layered Mediterranean forest ecosystem using height and intensity information derived from airborne laser scanning. <i>Remote Sensing of Environment</i> , 2010, 114, 1403-1415.	11.0	119
13	Simulating imaging spectrometer data: 3D forest modeling based on LiDAR and in situ data. <i>Remote Sensing of Environment</i> , 2014, 152, 235-250.	11.0	118
14	Aboveground biomass density models for NASA's Global Ecosystem Dynamics Investigation (GEDI) lidar mission. <i>Remote Sensing of Environment</i> , 2022, 270, 112845.	11.0	108
15	A Multispectral Canopy LiDAR Demonstrator Project. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 839-843.	3.1	92
16	Status and prospects for LiDAR remote sensing of forested ecosystems. <i>Canadian Journal of Remote Sensing</i> , 2013, 39, S1-S5.	2.4	92
17	Quantifying 3D structure and occlusion in dense tropical and temperate forests using close-range LiDAR. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 249-257.	4.8	88
18	Canopy closure, LAI and radiation transfer from airborne LiDAR synthetic images. <i>Agricultural and Forest Meteorology</i> , 2014, 197, 158-168.	4.8	86

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19	Uncertainty assessment of multi-temporal airborne laser scanning data: A case study on an Alpine glacier. <i>Remote Sensing of Environment</i> , 2012, 127, 118-129.	11.0	78
20	Inversion of a Lidar Waveform Model for Forest Biophysical Parameter Estimation. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2006, 3, 49-53.	3.1	74
21	Understory trees in airborne LiDAR data – Selective mapping due to transmission losses and echo-triggering mechanisms. <i>Remote Sensing of Environment</i> , 2012, 119, 92-104.	11.0	72
22	Standardizing Ecosystem Morphological Traits from 3D Information Sources. <i>Trends in Ecology and Evolution</i> , 2020, 35, 656-667.	8.7	72
23	Remote sensing of plant-water relations: An overview and future perspectives. <i>Journal of Plant Physiology</i> , 2018, 227, 3-19.	3.5	70
24	Quantification of hidden canopy volume of airborne laser scanning data using a voxel traversal algorithm. <i>Remote Sensing of Environment</i> , 2017, 194, 424-436.	11.0	68
25	Terrestrial Laser Scanning for Forest Inventories – Tree Diameter Distribution and Scanner Location Impact on Occlusion. <i>Forests</i> , 2017, 8, 184.	2.1	64
26	Fusion of imaging spectroscopy and airborne laser scanning data for characterization of forest ecosystems – A review. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 97, 25-35.	11.1	60
27	Disentangling the effects of climate, topography, soil and vegetation on stand-scale species richness in temperate forests. <i>Forest Ecology and Management</i> , 2015, 349, 36-44.	3.2	56
28	A Practical Approach for Extracting Tree Models in Forest Environments Based on Equirectangular Projections of Terrestrial Laser Scans. <i>Remote Sensing</i> , 2013, 5, 5424-5448.	4.0	54
29	Improved methods for measuring forest landscape structure: LiDAR complements field-based habitat assessment. <i>Biodiversity and Conservation</i> , 2014, 23, 289-307.	2.6	53
30	Mapping functional diversity using individual tree-based morphological and physiological traits in a subtropical forest. <i>Remote Sensing of Environment</i> , 2021, 252, 112170.	11.0	46
31	Forest canopy-structure characterization: A data-driven approach. <i>Forest Ecology and Management</i> , 2015, 358, 48-61.	3.2	42
32	Tree species classification in a temperate mixed forest using a combination of imaging spectroscopy and airborne laser scanning. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107744.	4.8	39
33	Tomographic Imaging of a Forested Area By Airborne Multi-Baseline P-Band SAR. <i>Sensors</i> , 2008, 8, 5884-5896.	3.8	37
34	Novel forest structure metrics from airborne LiDAR data for improved snow interception estimation. <i>Agricultural and Forest Meteorology</i> , 2015, 208, 40-49.	4.8	36
35	Characterization of an alpine tree line using airborne LiDAR data and physiological modeling. <i>Global Change Biology</i> , 2013, 19, 3808-3821.	9.5	32
36	Close-range laser scanning in forests: towards physically based semantics across scales. <i>Interface Focus</i> , 2018, 8, 20170046.	3.0	30

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37	Above-ground biomass references for urban trees from terrestrial laser scanning data. <i>Annals of Botany</i> , 2021, 128, 709-724.	2.9	29
38	Retrieval of higher order statistical moments from full-waveform LiDAR data for tree species classification. <i>Remote Sensing of Environment</i> , 2017, 196, 28-41.	11.0	23
39	UAV-based LiDAR acquisition for the derivation of high-resolution forest and ground information. <i>The Leading Edge</i> , 2017, 36, 566-570.	0.7	23
40	Modelling of three-dimensional, diurnal light extinction in two contrasting forests. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108230.	4.8	18
41	Assessing biodiversity from space: Impact of spatial and spectral resolution on trait-based functional diversity. <i>Remote Sensing of Environment</i> , 2022, 275, 113024.	11.0	18
42	Towards Automated Characterization of Canopy Layering in Mixed Temperate Forests Using Airborne Laser Scanning. <i>Forests</i> , 2015, 6, 4146-4167.	2.1	17
43	Remote sensing of forest gas exchange: Considerations derived from a tomographic perspective. <i>Global Change Biology</i> , 2020, 26, 2717-2727.	9.5	17
44	Computation of a distributed glacier surface albedo proxy using airborne laser scanning intensity data and in-situ spectro-radiometric measurements. <i>Remote Sensing of Environment</i> , 2015, 160, 31-42.	11.0	14
45	Tomographic processing of multi-baseline P-band SAR data for imaging of a forested area. , 2007, , .		13
46	Impact of Beam Diameter and Scanning Approach on Point Cloud Quality of Terrestrial Laser Scanning in Forests. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 8153-8167.	6.3	13
47	Remotely sensed between-individual functional trait variation in a temperate forest. <i>Ecology and Evolution</i> , 2021, 11, 10834-10867.	1.9	13
48	Operational forest structure monitoring using airborne laser scanning. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2013, 2013, 173-184.	1.2	12
49	Single tree identification using airborne multibaseline SAR interferometry data. <i>Remote Sensing of Environment</i> , 2016, 186, 567-580.	11.0	12
50	Mapping the Irradiance Field of a Single Tree: Quantifying Vegetation-Induced Adjacency Effects. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 4994-5011.	6.3	11
51	Estimation of Canopy Cover, Gap Fraction and Leaf Area Index with Airborne Laser Scanning. <i>Managing Forest Ecosystems</i> , 2014, , 397-417.	0.9	11
52	Synergies of Spaceborne Imaging Spectroscopy with Other Remote Sensing Approaches. <i>Surveys in Geophysics</i> , 2019, 40, 657-687.	4.6	10
53	3D dynamics of debris flows quantified at sub-second intervals from laser profiles. <i>Natural Hazards</i> , 2017, 89, 785-800.	3.4	9
54	Clumping Effects in Leaf Area Index Retrieval From Large-Footprint Full-Waveform LiDAR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-20.	6.3	7

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55	The Laegeren Site: An Augmented Forest Laboratory. , 2020, , 83-104.		4
56	Laser Pulse Interaction with Forest Canopy: Geometric and Radiometric Issues. Managing Forest Ecosystems, 2014, , 19-41.	0.9	4
57	Correcting Crown-Level Clumping Effect for Improving Leaf Area Index Retrieval From Large-Footprint LiDAR: A Study Based on the Simulated Waveform and GLAS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12386-12402.	4.9	4
58	Long-term fire history and high-resolution remote sensing based fuel assessment: Key elements for fire and landscape management in nature conservation areas. Forest Ecology and Management, 2006, 234, S212.	3.2	1
59	Retrieval of canopy structure types for forest characterization using multi-temporal airborne laser scanning. , 2015, , .		0
60	Preface: ForestSAT 2014 Special Issue. Remote Sensing of Environment, 2016, 173, 211-213.	11.0	0
61	Erfassung struktureller Waldparameter mithilfe von flugzeuggetragendem Laserscanning Deriving structural forest parameters using airborne laser scanning. Schweizerische Zeitschrift Fur Forstwesen, 2011, 162, 164-170.	0.1	0