

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
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all docs

63
docs citations

63
times ranked

4369
citing authors

#	ARTICLE	IF	CITATIONS
1	Clumping Effects in Leaf Area Index Retrieval From Large-Footprint Full-Waveform LiDAR. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	6.3	7
2	Aboveground biomass density models for NASA's Global Ecosystem Dynamics Investigation (GEDI) lidar mission. Remote Sensing of Environment, 2022, 270, 112845.	11.0	108
3	Assessing biodiversity from space: Impact of spatial and spectral resolution on trait-based functional diversity. Remote Sensing of Environment, 2022, 275, 113024.	11.0	18
4	Impact of Beam Diameter and Scanning Approach on Point Cloud Quality of Terrestrial Laser Scanning in Forests. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8153-8167.	6.3	13
5	Mapping functional diversity using individual tree-based morphological and physiological traits in a subtropical forest. Remote Sensing of Environment, 2021, 252, 112170.	11.0	46
6	Modelling of three-dimensional, diurnal light extinction in two contrasting forests. Agricultural and Forest Meteorology, 2021, 296, 108230.	4.8	18
7	Above-ground biomass references for urban trees from terrestrial laser scanning data. Annals of Botany, 2021, 128, 709-724.	2.9	29
8	Remotely sensed between-individual functional trait variation in a temperate forest. Ecology and Evolution, 2021, 11, 10834-10867.	1.9	13
9	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
10	Standardizing Ecosystem Morphological Traits from 3D Information Sources. Trends in Ecology and Evolution, 2020, 35, 656-667.	8.7	72
11	Remote sensing of forest gas exchange: Considerations derived from a tomographic perspective. Global Change Biology, 2020, 26, 2717-2727.	9.5	17
12	The Laegeren Site: An Augmented Forest Laboratory. , 2020, , 83-104.		4
13	Synergies of Spaceborne Imaging Spectroscopy with Other Remote Sensing Approaches. Surveys in Geophysics, 2019, 40, 657-687.	4.6	10
14	Tree species classification in a temperate mixed forest using a combination of imaging spectroscopy and airborne laser scanning. Agricultural and Forest Meteorology, 2019, 279, 107744.	4.8	39
15	Quantifying 3D structure and occlusion in dense tropical and temperate forests using close-range LiDAR. Agricultural and Forest Meteorology, 2019, 268, 249-257.	4.8	88
16	Mapping the Irradiance Field of a Single Tree: Quantifying Vegetation-Induced Adjacency Effects. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4994-5011.	6.3	11
17	Close-range laser scanning in forests: towards physically based semantics across scales. Interface Focus, 2018, 8, 20170046.	3.0	30
18	Remote sensing of plant-water relations: An overview and future perspectives. Journal of Plant Physiology, 2018, 227, 3-19.	3.5	70

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19	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
20	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
21	3D dynamics of debris flows quantified at sub-second intervals from laser profiles. <i>Natural Hazards</i> , 2017, 89, 785-800.	3.4	9
22	Mapping functional diversity from remotely sensed morphological and physiological forest traits. <i>Nature Communications</i> , 2017, 8, 1441.	12.8	214
23	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
24	Terrestrial Laser Scanning for Forest Inventories – Tree Diameter Distribution and Scanner Location Impact on Occlusion. <i>Forests</i> , 2017, 8, 184.	2.1	64
25	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
26	Single tree identification using airborne multibaseline SAR interferometry data. <i>Remote Sensing of Environment</i> , 2016, 186, 567-580.	11.0	12
27	Preface: ForestSAT 2014 Special Issue. <i>Remote Sensing of Environment</i> , 2016, 173, 211-213.	11.0	0
28	Towards Automated Characterization of Canopy Layering in Mixed Temperate Forests Using Airborne Laser Scanning. <i>Forests</i> , 2015, 6, 4146-4167.	2.1	17
29	Retrieval of canopy structure types for forest characterization using multi-temporal airborne laser scanning. , 2015, , .		0
30	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
31	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
32	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
33	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
34	Forest canopy-structure characterization: A data-driven approach. <i>Forest Ecology and Management</i> , 2015, 358, 48-61.	3.2	42
35	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
36	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

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37	Canopy closure, LAI and radiation transfer from airborne LiDAR synthetic images. <i>Agricultural and Forest Meteorology</i> , 2014, 197, 158-168.	4.8	86
38	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
39	Laser Pulse Interaction with Forest Canopy: Geometric and Radiometric Issues. <i>Managing Forest Ecosystems</i> , 2014, , 19-41.	0.9	4
40	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
41	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
42	Status and prospects for LiDAR remote sensing of forested ecosystems. <i>Canadian Journal of Remote Sensing</i> , 2013, 39, S1-S5.	2.4	92
43	Operational forest structure monitoring using airborne laser scanning. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2013, 2013, 173-184.	1.2	12
44	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
45	An International Comparison of Individual Tree Detection and Extraction Using Airborne Laser Scanning. <i>Remote Sensing</i> , 2012, 4, 950-974.	4.0	376
46	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
47	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
48	A Multispectral Canopy LiDAR Demonstrator Project. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 839-843.	3.1	92
49	Erfassung struktureller Waldparameter mithilfe von flugzeuggetragenen Laserscanning Deriving structural forest parameters using airborne laser scanning. <i>Schweizerische Zeitschrift Fur Forstwesen</i> , 2011, 162, 164-170.	0.1	0
50	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
51	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
52	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
53	Tomographic Imaging of a Forested Area By Airborne Multi-Baseline P-Band SAR. <i>Sensors</i> , 2008, 8, 5884-5896.	3.8	37
54	Tomographic processing of multi-baseline P-band SAR data for imaging of a forested area. , 2007, , .		13

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55	Forest Canopy Gap Fraction From Terrestrial Laser Scanning. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 157-160.	3.1	194
56	Fusion of imaging spectrometer and LIDAR data over combined radiative transfer models for forest canopy characterization. Remote Sensing of Environment, 2007, 106, 449-459.	11.0	172
57	Inversion of a Lidar Waveform Model for Forest Biophysical Parameter Estimation. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 49-53.	3.1	74
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	Estimation of LAI and fractional cover from small footprint airborne laser scanning data based on gap fraction. Remote Sensing of Environment, 2006, 104, 50-61.	11.0	371
60	Radiative transfer modeling within a heterogeneous canopy for estimation of forest fire fuel properties. Remote Sensing of Environment, 2004, 92, 332-344.	11.0	147
61	LIDAR-based geometric reconstruction of boreal type forest stands at single tree level for forest and wildland fire management. Remote Sensing of Environment, 2004, 92, 353-362.	11.0	307