

Lars T Waser

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,034
citations

331670

21
h-index

254184

43
g-index

48
all docs

48
docs citations

48
times ranked

2497
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of studies on tree species classification from remotely sensed data. <i>Remote Sensing of Environment</i> , 2016, 186, 64-87.	11.0	598
2	High-quality image matching and automated generation of 3D tree models. <i>International Journal of Remote Sensing</i> , 2008, 29, 1243-1259.	2.9	136
3	Evaluating the Potential of WorldView-2 Data to Classify Tree Species and Different Levels of Ash Mortality. <i>Remote Sensing</i> , 2014, 6, 4515-4545.	4.0	125
4	A meta-analysis and review of the literature on the k-Nearest Neighbors technique for forestry applications that use remotely sensed data. <i>Remote Sensing of Environment</i> , 2016, 176, 282-294.	11.0	124
5	Semi-automatic classification of tree species in different forest ecosystems by spectral and geometric variables derived from Airborne Digital Sensor (ADS40) and RC30 data. <i>Remote Sensing of Environment</i> , 2011, 115, 76-85.	11.0	86
6	A questionnaire-based review of the operational use of remotely sensed data by national forest inventories. <i>Remote Sensing of Environment</i> , 2016, 174, 279-289.	11.0	86
7	Combining ensemble modeling and remote sensing for mapping individual tree species at high spatial resolution. <i>Forest Ecology and Management</i> , 2013, 310, 64-73.	3.2	78
8	Assessing changes of forest area and shrub encroachment in a mire ecosystem using digital surface models and CIR aerial images. <i>Remote Sensing of Environment</i> , 2008, 112, 1956-1968.	11.0	69
9	Potential of UltraCamX stereo images for estimating timber volume and basal area at the plot level in mixed European forests. <i>Canadian Journal of Forest Research</i> , 2013, 43, 731-741.	1.7	69
10	Rapid Detection of Windthrows Using Sentinel-1 C-Band SAR Data. <i>Remote Sensing</i> , 2019, 11, 115.	4.0	66
11	Wall-to-Wall Forest Mapping Based on Digital Surface Models from Image-Based Point Clouds and a NFI Forest Definition. <i>Forests</i> , 2015, 6, 4510-4528.	2.1	52
12	Comparing different classification algorithms for monitoring mangrove cover changes in southern Iran. <i>Global Ecology and Conservation</i> , 2019, 19, e00662.	2.1	46
13	Wall-to-Wall Tree Type Mapping from Countrywide Airborne Remote Sensing Surveys. <i>Remote Sensing</i> , 2017, 9, 766.	4.0	45
14	Comparison of large-area land cover products with national forest inventories and CORINE land cover in the European Alps. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2006, 8, 196-207.	2.8	33
15	Increasing the broad-leaved tree fraction in European forests mitigates hot temperature extremes. <i>Scientific Reports</i> , 2020, 10, 14153.	3.3	32
16	European Wide Forest Classification Based on Sentinel-1 Data. <i>Remote Sensing</i> , 2021, 13, 337.	4.0	31
17	National mapping and estimation of forest area by dominant tree species using Sentinel-2 data. <i>Canadian Journal of Forest Research</i> , 2021, 51, 365-379.	1.7	30
18	Mapping dominant leaf type based on combined Sentinel-1/-2 data – Challenges for mountainous countries. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 180, 209-226.	11.1	30

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19	Prediction of biodiversity - regression of lichen species richness on remote sensing data. <i>Community Ecology</i> , 2004, 5, 121-133.	0.9	25
20	High-resolution digital surface models (DSMs) for modelling fractional shrub/tree cover in a mire environment. <i>International Journal of Remote Sensing</i> , 2008, 29, 1261-1276.	2.9	25
21	Identifying Tree-Related Microhabitats in TLS Point Clouds Using Machine Learning. <i>Remote Sensing</i> , 2018, 10, 1735.	4.0	23
22	Combining remotely sensed spectral data and digital surface models for fine-scale modelling of mire ecosystems. <i>Community Ecology</i> , 2004, 5, 55-68.	0.9	21
23	Prediction of lichen diversity in an UNESCO biosphere reserve – correlation of high resolution remote sensing data with field samples. <i>Environmental Modeling and Assessment</i> , 2007, 12, 315-328.	2.2	19
24	Land Cover Classification in Mangrove Ecosystems Based on VHR Satellite Data and Machine Learning – An Upscaling Approach. <i>Remote Sensing</i> , 2020, 12, 2684.	4.0	19
25	Improving predictive mapping in Swiss mire ecosystems through recalibration of indicator values. <i>Applied Vegetation Science</i> , 2007, 10, 183-192.	1.9	18
26	Assessing structural changes at the forest edge using kernel density estimation. <i>Forest Ecology and Management</i> , 2020, 456, 117639.	3.2	17
27	Mapping disturbance in mangrove ecosystems: Incorporating landscape metrics and PCA-based spatial analysis. <i>Ecological Indicators</i> , 2022, 136, 108718.	6.3	17
28	Potential of Digital Sensors for Land Cover and Tree Species Classifications A Case Study in the Framework of the DGPF-Project. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2010, 2010, 141-156.	1.2	16
29	A novel method to assess short-term forest cover changes based on digital surface models from image-based point clouds. <i>Forestry</i> , 2015, 88, 429-440.	2.3	14
30	Countrywide mapping of trees outside forests based on remote sensing data in Switzerland. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 100, 102336.	2.8	14
31	Airborne-laser-scanning-derived auxiliary information discriminating between broadleaf and conifer trees improves the accuracy of models for predicting timber volume in mixed and heterogeneously structured forests. <i>Forest Ecology and Management</i> , 2020, 459, 117856.	3.2	12
32	Contribution of multi-source remote sensing data to predictive mapping of plant-indicator gradients within Swiss mire habitats. <i>Botanica Helvetica</i> , 2010, 120, 29-42.	1.1	11
33	Predictive mapping of floristic site conditions across mire habitats: Evaluating data requirements. <i>Community Ecology</i> , 2008, 9, 133-146.	0.9	10
34	Assessing the structure of primeval and managed beech forests in the Ukrainian Carpathians using remote sensing. <i>Canadian Journal of Forest Research</i> , 2017, 47, 63-72.	1.7	9
35	Predicting biomass dynamics at the national extent from digital aerial photogrammetry. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 90, 102116.	2.8	6
36	Species level classification of Mediterranean sparse forests-maquis formations using Sentinel-2 imagery. <i>Geocarto International</i> , 2022, 37, 1587-1606.	3.5	4

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37	Area-Wide Products. Managing Forest Ecosystems, 2019, , 125-142.	0.9	3
38	Entwicklungen im Bereich der Fernerkundung für forstliche Anwendungen. Schweizerische Zeitschrift Für Forstwesen, 2017, 168, 118-126.	0.1	3
39	Countrywide mapping of shrub forest using multi-sensor data and bias correction techniques. International Journal of Applied Earth Observation and Geoinformation, 2021, 105, 102613.	2.8	3
40	Assessing Changes in Mountain Treeline Ecotones over 30 Years Using CNNs and Historical Aerial Images. Remote Sensing, 2022, 14, 2135.	4.0	3
41	Editorial Summary, Remote Sensing Special Issue "Advances in Remote Sensing for Global Forest Monitoring". Remote Sensing, 2021, 13, 597.	4.0	2
42	Improving predictive mapping in Swiss mire ecosystems through re-calibration of indicator values. Applied Vegetation Science, 2007, 10, 183.	1.9	2
43	Progress Towards Harmonised Assessment of Availability and Use of Wood Resources in Europe. , 2016, , 81-104.		1
44	Stand und Perspektiven einer landesweiten Baumartenklassifikation mit digitalen Luftbildern. Schweizerische Zeitschrift Für Forstwesen, 2013, 164, 95-103.	0.1	1
45	Extraction of forest parameters in a mire biotope using high-resolution digital surface models and airborne imagery. , 2007, , .		0
46	Mean shift segmentation applied to ADS40 data for automatic forest detection. , 2009, , .		0
47	Towards Automated Forest Mapping. , 2017, , 263-304.		0