Lars T Waser

List of Publications by Year
in descending order

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	Species level classification of Mediterranean sparse forests-maquis formations using Sentinel-2 imagery. Geocarto International, 2022, 37, 1587-1606.	3.5	4
2	Mapping disturbance in mangrove ecosystems: Incorporating landscape metrics and PCA-based spatial analysis. Ecological Indicators, 2022, 136, 108718.	6.3	17
3	Assessing Changes in Mountain Treeline Ecotones over 30 Years Using CNNs and Historical Aerial Images. Remote Sensing, 2022, 14, 2135.	4.0	3
4	National mapping and estimation of forest area by dominant tree species using Sentinel-2 data. Canadian Journal of Forest Research, 2021, 51, 365-379.	1.7	30
5	European Wide Forest Classification Based on Sentinel-1 Data. Remote Sensing, 2021, 13, 337.	4.0	31
6	Editorial Summary, Remote Sensing Special Issue â€œAdvances in Remote Sensing for Global Forest Monitoringâ€• Remote Sensing, 2021, 13, 597.	4.0	2
7	Countrywide mapping of trees outside forests based on remote sensing data in Switzerland. International Journal of Applied Earth Observation and Geoinformation, 2021, 100, 102336.	2.8	14
8	Mapping dominant leaf type based on combined Sentinel-1/-2 data â€" Challenges for mountainous countries. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 180, 209-226.	11.1	30
9	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
10	Assessing structural changes at the forest edge using kernel density estimation. Forest Ecology and Management, 2020, 456, 117639.	3.2	17
11	Land Cover Classification in Mangrove Ecosystems Based on VHR Satellite Data and Machine Learningâ€"An Upscaling Approach. Remote Sensing, 2020, 12, 2684.	4.0	19
12	Increasing the broad-leaved tree fraction in European forests mitigates hot temperature extremes. Scientific Reports, 2020, 10, 14153.	3.3	32
13	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. Forest Ecology and Management, 2020, 459, 117856.	3.2	12
14	Predicting biomass dynamics at the national extent from digital aerial photogrammetry. International Journal of Applied Earth Observation and Geoinformation, 2020, 90, 102116.	2.8	6
15	Rapid Detection of Windthrows Using Sentinel-1 C-Band SAR Data. Remote Sensing, 2019, 11, 115.	4.0	66
16	Comparing different classification algorithms for monitoring mangrove cover changes in southern Iran. Global Ecology and Conservation, 2019, 19, e00662.	2.1	46
17	Area-Wide Products. Managing Forest Ecosystems, 2019, , 125-142.	0.9	3
18	Identifying Tree-Related Microhabitats in TLS Point Clouds Using Machine Learning. Remote Sensing, 2018, 10, 1735.	4.0	23

#	Article	IF	Citations
19	Assessing the structure of primeval and managed beech forests in the Ukrainian Carpathians using remote sensing. Canadian Journal of Forest Research, 2017, 47, 63-72.	1.7	9
20	Wall-to-Wall Tree Type Mapping from Countrywide Airborne Remote Sensing Surveys. Remote Sensing, 2017, 9, 766.	4.0	45
21	Towards Automated Forest Mapping. , 2017, , 263-304.		0
22	Entwicklungen im Bereich der Fernerkundung fÃ¼r forstliche Anwendungen. Schweizerische Zeitschrift Fur Forstwesen, 2017, 168, 118-126.	0.1	3
23	Progress Towards Harmonised Assessment of Availability and Use of Wood Resources in Europe. , 2016, , 81-104.		1
24	Review of studies on tree species classification from remotely sensed data. Remote Sensing of Environment, 2016, 186, 64-87.	11.0	598
25	A questionnaire-based review of the operational use of remotely sensed data by national forest inventories. Remote Sensing of Environment, 2016, 174, 279-289.	11.0	86
26	A meta-analysis and review of the literature on the k-Nearest Neighbors technique for forestry applications that use remotely sensed data. Remote Sensing of Environment, 2016, 176, 282-294.	11.0	124
27	Wall-to-Wall Forest Mapping Based on Digital Surface Models from Image-Based Point Clouds and a NFI Forest Definition. Forests, 2015, 6, 4510-4528.	2.1	52
28	A novel method to assess short-term forest cover changes based on digital surface models from image-based point clouds. Forestry, 2015, 88, 429-440.	2.3	14
29	Evaluating the Potential of WorldView-2 Data to Classify Tree Species and Different Levels of Ash Mortality. Remote Sensing, 2014, 6, 4515-4545.	4.0	125
30	Combining ensemble modeling and remote sensing for mapping individual tree species at high spatial resolution. Forest Ecology and Management, 2013, 310, 64-73.	3.2	78
31	Potential of UltraCamX stereo images for estimating timber volume and basal area at the plot level in mixed European forests. Canadian Journal of Forest Research, 2013, 43, 731-741.	1.7	69
32	Stand und Perspektiven einer landesweiten Baumartenklassifikation mit digitalen Luftbildern. Schweizerische Zeitschrift Fur Forstwesen, 2013, 164, 95-103.	0.1	1
33	Semi-automatic classification of tree species in different forest ecosystems by spectral and geometric variables derived from Airborne Digital Sensor (ADS40) and RC30 data. Remote Sensing of Environment, 2011, 115, 76-85.	11.0	86
34	Potential of Digital Sensors for Land Cover and Tree Species Classifications A Case Study in the Framework of the DGPF-Project. Photogrammetrie, Fernerkundung, Geoinformation, 2010, 2010, 141-156.	1.2	16
35	Contribution of multi-source remote sensing data to predictive mapping of plant-indicator gradients within Swiss mire habitats. Botanica Helvetica, 2010, 120, 29-42.	1.1	11
36	Mean shift segmentation applied to ADS40 data for automatic forest detection. , 2009, , .		0

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37	Assessing changes of forest area and shrub encroachment in a mire ecosystem using digital surface models and CIR aerial images. Remote Sensing of Environment, 2008, 112, 1956-1968.	11.0	69
38	High‐resolution digital surface models (DSMs) for modelling fractional shrub/tree cover in a mire environment. International Journal of Remote Sensing, 2008, 29, 1261-1276.	2.9	25
39	High‐quality image matching and automated generation of 3D tree models. International Journal of Remote Sensing, 2008, 29, 1243-1259.	2.9	136
40	Predictive mapping of floristic site conditions across mire habitats: Evaluating data requirements. Community Ecology, 2008, 9, 133-146.	0.9	10
41	Extraction of forest parameters in a mire biotope using high-resolution digital surface models and airborne imagery. , 2007, , .		0
42	Improving predictive mapping in Swiss mire ecosystems through re‐calibration of indicator values. Applied Vegetation Science, 2007, 10, 183-192.	1.9	18
43	Prediction of lichen diversity in an UNESCO biosphere reserve â€" correlation of high resolution remote sensing data with field samples. Environmental Modeling and Assessment, 2007, 12, 315-328.	2.2	19
44	Improving predictive mapping in Swiss mire ecosystems through re-calibration of indicator values. Applied Vegetation Science, 2007, 10, 183.	1.9	2
45	Comparison of large-area land cover products with national forest inventories and CORINE land cover in the European Alps. International Journal of Applied Earth Observation and Geoinformation, 2006, 8, 196-207.	2.8	33
46	Prediction of biodiversity - regression of lichen species richness on remote sensing data. Community Ecology, 2004, 5, 121-133.	0.9	25
47	Combining remotely sensed spectral data and digital surface models for fine-scale modelling of mire ecosystems. Community Ecology, 2004, 5, 55-68.	0.9	21