Philipp Marzahn

List of Publications by Year
in descending order

35 papers	833 citations	623734 14 h-index	477307 29 g-index
38 all docs	38 docs citations	38 times ranked	1096 citing authors

#	Article	IF	Citations
1	A roadmap for high-resolution satellite soil moisture applications â€" confronting product characteristics with user requirements. Remote Sensing of Environment, 2021, 252, 112162.	11.0	138
2	SAR-based detection of flooded vegetation â€" a review of characteristics and approaches. International Journal of Remote Sensing, 2018, 39, 2255-2293.	2.9	110
3	Detection of Temporary Flooded Vegetation Using Sentinel-1 Time Series Data. Remote Sensing, 2018, 10, 1286.	4.0	80
4	Sentinel-1 soil moisture at 1 km resolution: a validation study. Remote Sensing of Environment, 2021, 263, 112554.	11.0	50
5	On the derivation of soil surface roughness from multi parametric PolSAR data and its potential for hydrological modeling. Hydrology and Earth System Sciences, 2009, 13, 381-394.	4.9	47
6	Assessment of soil surface roughness statistics for microwave remote sensing applications using a simple photogrammetric acquisition system. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 72, 80-89.	11.1	46
7	Flood Monitoring in Vegetated Areas Using Multitemporal Sentinel-1 Data: Impact of Time Series Features. Water (Switzerland), 2019, 11, 1938.	2.7	39
8	Progress in the understanding of narrow directional microwave scattering of agricultural fields. Remote Sensing of Environment, 2011, 115, 2423-2433.	11.0	34
9	Comparison of the GPM IMERG Final Precipitation Product to RADOLAN Weather Radar Data over the Topographically and Climatically Diverse Germany. Remote Sensing, 2018, 10, 2029.	4.0	30
10	Sentinel-1 InSAR measurements of deformation over discontinuous permafrost terrain, Northern Quebec, Canada. Remote Sensing of Environment, 2020, 248, 111965.	11.0	27
11	Comparison of TerraSAR-X and ALOS PALSAR Differential Interferometry With Multisource DEMs for Monitoring Ground Displacement in a Discontinuous Permafrost Region. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4074-4093.	4.9	24
12	Mapping permafrost landscape features using object-based image classification of multi-temporal SAR images. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 141, 10-29.	11.1	23
13	Global assessments of two blended microwave soil moisture products CCI and SMOPS with in-situ measurements and reanalysis data. International Journal of Applied Earth Observation and Geoinformation, 2021, 94, 102234.	2.8	23
14	Validation of Sentinel-2 fAPAR products using ground observations across three forest ecosystems. Remote Sensing of Environment, 2019, 232, 111310.	11.0	20
15	Characterization of Rape Field Microwave Emission and Implications to Surface Soil Moisture Retrievals. Remote Sensing, 2012, 4, 247-270.	4.0	14
16	On the estimation of tree mortality and liana infestation using a deep self-encoding network. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 1-13.	2.8	14
17	Evaluation of Different Radiative Transfer Models for Microwave Backscatter Estimation of Wheat Fields. Remote Sensing, 2020, 12, 3037.	4.0	14
18	Decomposing Dual Scale Soil Surface Roughness for Microwave Remote Sensing Applications. Remote Sensing, 2012, 4, 2016-2032.	4.0	13

#	Article	IF	Citations
19	Assessing the variability and uncertainty of two-flux FAPAR measurements in a conifer-dominated forest. Agricultural and Forest Meteorology, 2019, 264, 149-163.	4.8	12
20	Spatial Estimation of the Latent Heat Flux in a Tropical Dry Forest by Using Unmanned Aerial Vehicles. Forests, 2020, 11, 604.	2.1	12
21	Thermokarst pond dynamics in subarctic environment monitoring with radar remote sensing. Permafrost and Periglacial Processes, 2018, 29, 231-245.	3.4	10
22	Canopy Temperature Differences between Liana-Infested and Non-Liana Infested Areas in a Neotropical Dry Forest. Forests, 2019, 10, 890.	2.1	9
23	Utilization of Multi-Temporal Microwave Remote Sensing Data within a Geostatistical Regionalization Approach for the Derivation of Soil Texture. Remote Sensing, 2020, 12, 2660.	4.0	8
24	Sentinel-1 Backscatter Analysis and Radiative Transfer Modeling of Dense Winter Wheat Time Series. Remote Sensing, 2021, 13, 2320.	4.0	8
25	Unmanned Aerial System and Machine Learning Techniques Help to Detect Dead Woody Components in a Tropical Dry Forest. Forests, 2020, 11, 827.	2.1	6
26	Accuracy assessment on the number of flux terms needed to estimate in situ fAPAR. International Journal of Applied Earth Observation and Geoinformation, 2020, 88, 102061.	2.8	6
27	RADOLAN_API: An Hourly Soil Moisture Data Set Based on Weather Radar, Soil Properties and Reanalysis Temperature Data. Remote Sensing, 2021, 13, 1712.	4.0	4
28	A FUZZY LOGIC-BASED APPROACH FOR THE DETECTION OF FLOODED VEGETATION BY MEANS OF SYNTHETIC APERTURE RADAR DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 371-378.	0.2	4
29	Monitoring of a Sea-Dike in Northern Germany by Means of ERS-1, ENVISAT/ASAR, and Sentinel-1 SAR Interferometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4351-4360.	4.9	2
30	Considering the Environmental Impacts of Bioenergy Technologies to Support German Energy Transition. Energies, 2021, 14, 1534.	3.1	2
31	Fractional Vegetation Cover Derived from UAV and Sentinel-2 Imagery as a Proxy for In Situ FAPAR in a Dense Mixed-Coniferous Forest?. Remote Sensing, 2022, 14, 380.	4.0	2
32	Derivation of Soil Surface Roughness Dynamics from Multi-temporal and Multi-parametric Air-borne PolSAR-data. , 2007, , .		1
33	Monitoring of Sea Dike Structures by the Means of Combined StaMPS Multi-temporal InSAR Approach. Procedia Computer Science, 2016, 100, 1147-1154.	2.0	1
34	Operational surface soil moisture retrieval by c-band SAR imagery in a semi-arid environment. , 2012, , .		0
35	USING MULTI-DIMENSIONAL MICROWAVE REMOTE SENSING INFORMATION FOR THE RETRIEVAL OF SOIL SURFACE ROUGHNESS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B8, 1257-1262.	0.2	0