

# David Frantz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6841771/publications.pdf>

Version: 2024-02-01

38  
papers

1,540  
citations

304743

22  
h-index

315739

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1589  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric Correction Inter-Comparison Exercise. Remote Sensing, 2018, 10, 352.	4.0	156
2	Improvement of the Fmask algorithm for Sentinel-2 images: Separating clouds from bright surfaces based on parallax effects. Remote Sensing of Environment, 2018, 215, 471-481.	11.0	154
3	FORCE" Landsat + Sentinel-2 Analysis Ready Data and Beyond. Remote Sensing, 2019, 11, 1124.	4.0	153
4	Evaluation of machine learning algorithms for forest stand species mapping using Sentinel-2 imagery and environmental data in the Polish Carpathians. Remote Sensing of Environment, 2020, 251, 112103.	11.0	108
5	National-scale mapping of building height using Sentinel-1 and Sentinel-2 time series. Remote Sensing of Environment, 2021, 252, 112128.	11.0	93
6	An Operational Radiometric Landsat Preprocessing Framework for Large-Area Time Series Applications. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3928-3943.	6.3	72
7	Cloud Mask Intercomparison eXercise (CMIX): An evaluation of cloud masking algorithms for Landsat 8 and Sentinel-2. Remote Sensing of Environment, 2022, 274, 112990.	11.0	64
8	High-Resolution Maps of Material Stocks in Buildings and Infrastructures in Austria and Germany. Environmental Science & Technology, 2021, 55, 3368-3379.	10.0	57
9	Land-cover change in the Caucasus Mountains since 1987 based on the topographic correction of multi-temporal Landsat composites. Remote Sensing of Environment, 2020, 248, 111967.	11.0	49
10	Mapping grassland mowing events across Germany based on combined Sentinel-2 and Landsat 8 time series. Remote Sensing of Environment, 2022, 269, 112795.	11.0	49
11	Mapping urban-rural gradients of settlements and vegetation at national scale using Sentinel-2 spectral-temporal metrics and regression-based unmixing with synthetic training data. Remote Sensing of Environment, 2020, 246, 111810.	11.0	48
12	Enhancing the Detectability of Clouds and Their Shadows in Multitemporal Dryland Landsat Imagery: Extending Fmask. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1242-1246.	3.1	46
13	Mapping Cropping Practices on a National Scale Using Intra-Annual Landsat Time Series Binning. Remote Sensing, 2019, 11, 232.	4.0	45
14	Enhanced biomass prediction by assimilating satellite data into a crop growth model. Environmental Modelling and Software, 2014, 62, 437-453.	4.5	44
15	Phenology-adaptive pixel-based compositing using optical earth observation imagery. Remote Sensing of Environment, 2017, 190, 331-347.	11.0	44
16	Assessment of spatio-temporal changes of smallholder cultivation patterns in the Angolan Miombo belt using segmentation of Landsat time series. Remote Sensing of Environment, 2017, 195, 118-129.	11.0	42
17	Improving the Spatial Resolution of Land Surface Phenology by Fusing Medium- and Coarse-Resolution Inputs. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4153-4164.	6.3	33
18	Using Annual Landsat Time Series for the Detection of Dry Forest Degradation Processes in South-Central Angola. Remote Sensing, 2017, 9, 905.	4.0	31

#	ARTICLE	IF	CITATIONS
19	Evaluating the trade-off between food and timber resulting from the conversion of Miombo forests to agricultural land in Angola using multi-temporal Landsat data. <i>Science of the Total Environment</i> , 2016, 548-549, 390-401.	8.0	30
20	Comparison of Masking Algorithms for Sentinel-2 Imagery. <i>Remote Sensing</i> , 2021, 13, 137.	4.0	30
21	Gridded population mapping for Germany based on building density, height and type from Earth Observation data using census disaggregation and bottom-up estimates. <i>PLoS ONE</i> , 2021, 16, e0249044.	2.5	29
22	Spectral harmonization and red edge prediction of Landsat-8 to Sentinel-2 using land cover optimized multivariate regressors. <i>Remote Sensing of Environment</i> , 2020, 241, 111723.	11.0	26
23	Linking Land Surface Phenology and Vegetation-Plot Databases to Model Terrestrial Plant $\hat{\pm}$ -Diversity of the Okavango Basin. <i>Remote Sensing</i> , 2016, 8, 370.	4.0	21
24	Fire spread from MODIS burned area data: obtaining fire dynamics information for every single fire. <i>International Journal of Wildland Fire</i> , 2016, 25, 1228.	2.4	17
25	Operational Coregistration of the Sentinel-2A/B Image Archive Using Multitemporal Landsat Spectral Averages. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 712-716.	3.1	15
26	Multi-season unmixing of vegetation class fractions across diverse Californian ecoregions using simulated spaceborne imaging spectroscopy data. <i>Remote Sensing of Environment</i> , 2021, 264, 112558.	11.0	14
27	A Global MODIS Water Vapor Database for the Operational Atmospheric Correction of Historic and Recent Landsat Imagery. <i>Remote Sensing</i> , 2019, 11, 257.	4.0	11
28	Using Landsat and Sentinel-2 Data for the Generation of Continuously Updated Forest Type Information Layers in a Cross-Border Region. <i>Remote Sensing</i> , 2019, 11, 2337.	4.0	11
29	Revisiting the Past: Replicability of a Historic Long-Term Vegetation Dynamics Assessment in the Era of Big Data Analytics. <i>Remote Sensing</i> , 2022, 14, 597.	4.0	11
30	Forest Disturbance Mapping Using Dense Synthetic Landsat/MODIS Time-Series and Permutation-Based Disturbance Index Detection. <i>Remote Sensing</i> , 2016, 8, 277.	4.0	10
31	Visualizing and labeling dense multi-sensor earth observation time series: The EO Time Series Viewer. <i>Environmental Modelling and Software</i> , 2020, 125, 104631.	4.5	9
32	Interdependent effects of climate variability and forest cover change on streamflow dynamics: a case study in the Upper Umvoti River Basin, South Africa. <i>Regional Environmental Change</i> , 2019, 19, 1963-1971.	2.9	5
33	On the derivation of a spatially distributed aerosol climatology for its incorporation in a radiometric Landsat pre-processing framework. <i>Remote Sensing Letters</i> , 2015, 6, 647-656.	1.4	3
34	Integrated topographic corrections improve forest mapping using Landsat imagery. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 108, 102716.	2.8	3
35	Global Analysis of the Differences Between the MODIS Vegetation Index Compositing Date and the Actual Acquisition Date. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 866-870.	3.1	2
36	Seeing deforestation in Zambia - On the discrepancy between biophysical land-use changes and social perception. <i>Biodiversity and Ecology = Biodiversitat Und Okologie</i> , 2018, 6, 317-323.	0.3	2

#	ARTICLE	IF	CITATIONS
37	Sub-pixel building area mapping based on synthetic training data and regression-based unmixing using Sentinel-1 and -2 data. Remote Sensing Letters, 2022, 13, 822-832.	1.4	2
38	Remote sensing-based environmental assessment and monitoring - generation of operational baseline and enhanced experimental products in southern Africa. Biodiversity and Ecology = Biodiversitat Und Okologie, 2018, 6, 344-354.	0.3	1