

Frank-M Goettsche

List of Publications by Year in descending order

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57
papers

3,570
citations

126858

33
h-index

155592

55
g-index

66
all docs

66
docs citations

66
times ranked

2530
citing authors

#	ARTICLE	IF	CITATIONS
1	Land surface temperature and emissivity estimation from passive sensor data: Theory and practice-current trends. <i>International Journal of Remote Sensing</i> , 2002, 23, 2563-2594.	1.3	459
2	Google Earth Engine Open-Source Code for Land Surface Temperature Estimation from the Landsat Series. <i>Remote Sensing</i> , 2020, 12, 1471.	1.8	263
3	Validation of Collection 6 MODIS land surface temperature product using in situ measurements. <i>Remote Sensing of Environment</i> , 2019, 225, 16-29.	4.6	258
4	Integrated fusion of multi-scale polar-orbiting and geostationary satellite observations for the mapping of high spatial and temporal resolution land surface temperature. <i>Remote Sensing of Environment</i> , 2015, 156, 169-181.	4.6	186
5	Modelling of diurnal cycles of brightness temperature extracted from METEOSAT data. <i>Remote Sensing of Environment</i> , 2001, 76, 337-348.	4.6	160
6	Quantifying the Uncertainty of Land Surface Temperature Retrievals From SEVIRI/Meteosat. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 523-534.	2.7	142
7	Validation of Land Surface Temperature products derived from the Visible Infrared Imaging Radiometer Suite (VIIRS) using ground-based and heritage satellite measurements. <i>Remote Sensing of Environment</i> , 2014, 154, 19-37.	4.6	122
8	Validation of remotely sensed surface temperature over an oak woodland landscape – The problem of viewing and illumination geometries. <i>Remote Sensing of Environment</i> , 2014, 148, 16-27.	4.6	105
9	Long Term Validation of Land Surface Temperature Retrieved from MSG/SEVIRI with Continuous in-Situ Measurements in Africa. <i>Remote Sensing</i> , 2016, 8, 410.	1.8	100
10	A Method Based on Temporal Component Decomposition for Estimating 1-km All-Weather Land Surface Temperature by Merging Satellite Thermal Infrared and Passive Microwave Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 4670-4691.	2.7	97
11	Ecosystem properties of semiarid savanna grassland in West Africa and its relationship with environmental variability. <i>Global Change Biology</i> , 2015, 21, 250-264.	4.2	91
12	Influence of Land Surface Parameters and Atmosphere on METEOSAT Brightness Temperatures and Generation of Land Surface Temperature Maps by Temporally and Spatially Interpolating Atmospheric Correction. <i>Remote Sensing of Environment</i> , 2001, 75, 39-46.	4.6	87
13	Validation of land surface temperature derived from MSG/SEVIRI with <i>in situ</i> measurements at Gobabeb, Namibia. <i>International Journal of Remote Sensing</i> , 2013, 34, 3069-3083.	1.3	87
14	Meteosat Land Surface Temperature Climate Data Record: Achievable Accuracy and Potential Uncertainties. <i>Remote Sensing</i> , 2015, 7, 13139-13156.	1.8	74
15	Directional Viewing Effects on Satellite Land Surface Temperature Products Over Sparse Vegetation Canopies – A Multisensor Analysis. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1464-1468.	1.4	69
16	Modelling the effect of optical thickness on diurnal cycles of land surface temperature. <i>Remote Sensing of Environment</i> , 2009, 113, 2306-2316.	4.6	65
17	Comprehensive In Situ Validation of Five Satellite Land Surface Temperature Data Sets over Multiple Stations and Years. <i>Remote Sensing</i> , 2019, 11, 479.	1.8	61
18	Spatially Continuous and High-Resolution Land Surface Temperature Product Generation: A review of reconstruction and spatiotemporal fusion techniques. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2021, 9, 112-137.	4.9	61

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19	Validation of six satellite-retrieved land surface emissivity products over two land cover types in a hyper-arid region. <i>Remote Sensing of Environment</i> , 2012, 124, 149-158.	4.6	58
20	A Thermal Sampling Depth Correction Method for Land Surface Temperature Estimation From Satellite Passive Microwave Observation Over Barren Land. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4743-4756.	2.7	58
21	An All-Weather Land Surface Temperature Product Based on MSG/SEVIRI Observations. <i>Remote Sensing</i> , 2019, 11, 3044.	1.8	55
22	Quality Assessment of S-NPP VIIRS Land Surface Temperature Product. <i>Remote Sensing</i> , 2015, 7, 12215-12241.	1.8	54
23	Global Land Surface Temperature From the Along-Track Scanning Radiometers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,167.	1.2	53
24	Directional Effects on Land Surface Temperature Estimation From Meteosat Second Generation for Savanna Landscapes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4458-4468.	2.7	52
25	Synergistic use of MERIS and AATSR as a proxy for estimating Land Surface Temperature from Sentinel-3 data. <i>Remote Sensing of Environment</i> , 2016, 179, 149-161.	4.6	49
26	Kalman filter physical retrieval of surface emissivity and temperature from SEVIRI infrared channels: a validation and intercomparison study. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2981-2997.	1.2	47
27	Validation and Quality Assessment of the ECOSTRESS Level-2 Land Surface Temperature and Emissivity Product. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-23.	2.7	46
28	Linking Surface Urban Heat Islands with Groundwater Temperatures. <i>Environmental Science & Technology</i> , 2016, 50, 70-78.	4.6	41
29	Investigation and validation of algorithms for estimating land surface temperature from Sentinel-3 SLSTR data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 91, 102136.	1.4	40
30	The impact of image dynamic range on texture classification of brain white matter. <i>BMC Medical Imaging</i> , 2008, 8, 18.	1.4	36
31	Temperature and Emissivity Separation From MSG/SEVIRI Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 5937-5951.	2.7	36
32	Tree survey and allometric models for tiger bush in northern Senegal and comparison with tree parameters derived from high resolution satellite data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2011, 13, 517-527.	1.4	35
33	Land Surface Temperature. , 2019, , 57-127.		35
34	A global long-term (1981â€“2000) land surface temperature product for NOAA AVHRR. <i>Earth System Science Data</i> , 2020, 12, 3247-3268.	3.7	33
35	Comprehensive assessment of four-parameter diurnal land surface temperature cycle models under clear-sky. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 142, 190-204.	4.9	32
36	Retrieval of land surface temperature and emissivity from satellite data: Physics, theoretical limitations and current methods. <i>Journal of the Indian Society of Remote Sensing</i> , 2001, 29, 23-30.	1.2	31

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37	Separating surface emissivity and temperature using two-channel spectral indices and emissivity composites and comparison with a vegetation fraction method. <i>Remote Sensing of Environment</i> , 2005, 96, 1-17.	4.6	29
38	Physical Retrieval of Land Surface Emissivity Spectra from Hyper-Spectral Infrared Observations and Validation with In Situ Measurements. <i>Remote Sensing</i> , 2018, 10, 976.	1.8	29
39	A simple yet robust framework to estimate accurate daily mean land surface temperature from thermal observations of tandem polar orbiters. <i>Remote Sensing of Environment</i> , 2021, 264, 112612.	4.6	24
40	Evaluation of GOES-R Land Surface Temperature Algorithm Using SEVIRI Satellite Retrievals With <i>In Situ</i> Measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 3812-3822.	2.7	23
41	Evolution of neural networks for radiative transfer calculations in the terrestrial infrared. <i>Remote Sensing of Environment</i> , 2002, 80, 157-164.	4.6	22
42	Continuous evaluation of the spatial representativeness of land surface temperature validation sites. <i>Remote Sensing of Environment</i> , 2021, 265, 112669.	4.6	21
43	Potential of MSG for surface temperature and emissivity estimation: Considerations for real-time applications. <i>International Journal of Remote Sensing</i> , 2002, 23, 4511-4518.	1.3	19
44	The 2016 CEOS Infrared Radiometer Comparison: Part II: Laboratory Comparison of Radiation Thermometers. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 1079-1092.	0.5	18
45	Validation and consistency assessment of land surface temperature from geostationary and polar orbit platforms: SEVIRI/MSG and AVHRR/Metop. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 175, 282-297.	4.9	15
46	Validation of Sentinel-3 SLSTR Land Surface Temperature Retrieved by the Operational Product and Comparison with Explicitly Emissivity-Dependent Algorithms. <i>Remote Sensing</i> , 2021, 13, 2228.	1.8	14
47	Long-term column-averaged greenhouse gas observations using a COCCON spectrometer at the high-surface-albedo site in Gobabeb, Namibia. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5887-5911.	1.2	12
48	Component radiative temperatures over sparsely vegetated surfaces and their potential for upscaling land surface temperature. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107600.	1.9	11
49	Artificial Neural Networks to Retrieve Land and Sea Skin Temperature from IASI. <i>Remote Sensing</i> , 2020, 12, 2777.	1.8	10
50	A global dataset of spatiotemporally seamless daily mean land surface temperatures: generation, validation, and analysis. <i>Earth System Science Data</i> , 2022, 14, 3091-3113.	3.7	10
51	Retrieving Soil and Vegetation Temperatures From Dual-Angle and Multipixel Satellite Observations. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 5536-5549.	2.3	7
52	SEVIRI Hyper-Fast Forward Model with Application to Emissivity Retrieval. <i>Sensors</i> , 2019, 19, 1532.	2.1	6
53	Emissivity and temperature estimation from MSG SEVIRI data; method validation with simulated and NOAA-14 AVHRR data. <i>Advances in Space Research</i> , 2003, 32, 2241-2246.	1.2	5
54	Validation of AVHRR Land Surface Temperature with MODIS and In Situ LST – A TIMELINE Thematic Processor. <i>Remote Sensing</i> , 2021, 13, 3473.	1.8	5

#	ARTICLE	IF	CITATIONS
55	<i>Letter to the Editor</i> Retrieval of land surface temperature from combined AVHRR data. Annales Geophysicae, 2002, 20, 1257-1259.	0.6	4
56	Correction to "A Method Based on Temporal Component Decomposition for Estimating 1-km All-Weather Land Surface Temperature by Merging Satellite Thermal Infrared and Passive Microwave Observations" [Feb 19 4670-4691]. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6254-6254.	2.7	3
57	Substituting radiative transfer modelling in the thermal infrared by neural networks. , 0, , .		0