

Isabel Trigo

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

7,890
citations

66343

42
h-index

51608

86
g-index

115
all docs

115
docs citations

115
times ranked

7581
citing authors

#	ARTICLE	IF	CITATIONS
1	Objective climatology of cyclones in the Mediterranean region: a consensus view among methods with different system identification and tracking criteria. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 68, 29391.	1.7	79
2	Observed Landscape Responsiveness to Climate Forcing. <i>Water Resources Research</i> , 2022, 58, .	4.2	9
3	Integrating Reanalysis and Satellite Cloud Information to Estimate Surface Downward Long-Wave Radiation. <i>Remote Sensing</i> , 2022, 14, 1704.	4.0	8
4	A Comprehensive Clear-Sky Database for the Development of Land Surface Temperature Algorithms. <i>Remote Sensing</i> , 2022, 14, 2329.	4.0	1
5	A Practical Method for High-Resolution Burned Area Monitoring Using Sentinel-2 and VIIRS. <i>Remote Sensing</i> , 2021, 13, 1608.	4.0	14
6	Daily grass reference evapotranspiration with Meteosat Second Generation shortwave radiation and reference ET products. <i>Agricultural Water Management</i> , 2021, 248, 106543.	5.6	19
7	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.	11.1	15
8	Remote Sensing of Global Daily Evapotranspiration based on a Surface Energy Balance Method and Reanalysis Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032873.	3.3	32
9	Upgrading Landâ€Cover and Vegetation Seasonality in the ECMWF Coupled System: Verification With FLUXNET Sites, METEOSAT Satellite Land Surface Temperatures, and ERA5 Atmospheric Reanalysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034163.	3.3	17
10	Surface Albedo Retrieval from 40-Years of Earth Observations through the EUMETSAT/LSA SAF and EU/C3S Programmes: The Versatile Algorithm of PYALUS. <i>Remote Sensing</i> , 2021, 13, 372.	4.0	10
11	A deep learning approach for mapping and dating burned areas using temporal sequences of satellite images. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 160, 260-274.	11.1	63
12	A multi-sensor approach to retrieve emissivity angular dependence over desert regions. <i>Remote Sensing of Environment</i> , 2020, 237, 111559.	11.0	14
13	Multisensor Thermal Infrared and Microwave Land Surface Temperature Algorithm Intercomparison. <i>Remote Sensing</i> , 2020, 12, 4164.	4.0	4
14	Landâ€Atmosphere Drivers of Landscapeâ€Scale Plant Water Content Loss. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090331.	4.0	27
15	Google Earth Engine Open-Source Code for Land Surface Temperature Estimation from the Landsat Series. <i>Remote Sensing</i> , 2020, 12, 1471.	4.0	263
16	The roles of NDVI and Land Surface Temperature when using the Vegetation Health Index over dry regions. <i>Global and Planetary Change</i> , 2020, 190, 103198.	3.5	44
17	Enhancing the fire weather index with atmospheric instability information. <i>Environmental Research Letters</i> , 2020, 15, 0940b7.	5.2	16
18	Evaluation of Two Global Land Surface Albedo Datasets Distributed by the Copernicus Climate Change Service and the EUMETSAT LSA-SAF. <i>Remote Sensing</i> , 2020, 12, 1888.	4.0	9

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19	Role of vegetation in representing land surface temperature in the CHTESSEL (CY45R1) and SURFEX-ISBA (v8.1) land surface models: a case study over Iberia. <i>Geoscientific Model Development</i> , 2020, 13, 3975-3993.	3.6	25
20	A review of earth surface thermal radiation directionality observing and modeling: Historical development, current status and perspectives. <i>Remote Sensing of Environment</i> , 2019, 232, 111304.	11.0	91
21	Cold Bias of ERA5 Summertime Daily Maximum Land Surface Temperature over Iberian Peninsula. <i>Remote Sensing</i> , 2019, 11, 2570.	4.0	49
22	A New Retrieval Algorithm for Soil Moisture Index from Thermal Infrared Sensor On-Board Geostationary Satellites over Europe and Africa and Its Validation. <i>Remote Sensing</i> , 2019, 11, 1968.	4.0	12
23	A New Method to Estimate Reference Crop Evapotranspiration from Geostationary Satellite Imagery: Practical Considerations. <i>Water (Switzerland)</i> , 2019, 11, 382.	2.7	15
24	Modelling of Wine Production Using Land Surface Temperature and FAPAR—The Case of the Douro Wine Region. <i>Remote Sensing</i> , 2019, 11, 604.	4.0	8
25	How well do global burned area products represent fire patterns in the Brazilian Savannas biome? An accuracy assessment of the MCD64 collections. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 78, 318-331.	2.8	35
26	Satellite Retrieval of Downwelling Shortwave Surface Flux and Diffuse Fraction under All Sky Conditions in the Framework of the LSA SAF Program (Part 2: Evaluation). <i>Remote Sensing</i> , 2019, 11, 2630.	4.0	8
27	An All-Weather Land Surface Temperature Product Based on MSG/SEVIRI Observations. <i>Remote Sensing</i> , 2019, 11, 3044.	4.0	55
28	Satellite Retrieval of Downwelling Shortwave Surface Flux and Diffuse Fraction under All Sky Conditions in the Framework of the LSA SAF Program (Part 1: Methodology). <i>Remote Sensing</i> , 2019, 11, 2532.	4.0	8
29	Satellite-Based Assessment of Land Surface Energy Partitioning—Soil Moisture Relationships and Effects of Confounding Variables. <i>Water Resources Research</i> , 2019, 55, 10657-10677.	4.2	37
30	Quantifying the Clear-Sky Bias of Satellite Land Surface Temperature Using Microwave-Based Estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 844-857.	3.3	29
31	Assessing the potential of parametric models to correct directional effects on local to global remotely sensed LST. <i>Remote Sensing of Environment</i> , 2018, 209, 410-422.	11.0	32
32	A Methodology to Simulate LST Directional Effects Based on Parametric Models and Landscape Properties. <i>Remote Sensing</i> , 2018, 10, 1114.	4.0	18
33	Fire danger rating over Mediterranean Europe based on fire radiative power derived from Meteosat. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 515-529.	3.6	33
34	Satellite and In Situ Observations for Advancing Global Earth Surface Modelling: A Review. <i>Remote Sensing</i> , 2018, 10, 2038.	4.0	95
35	Land Surface Albedo Derived on a Ten Daily Basis from Meteosat Second Generation Observations: The NRT and Climate Data Record Collections from the EUMETSAT LSA SAF. <i>Remote Sensing</i> , 2018, 10, 1262.	4.0	21
36	Contribution of Land Surface Temperature (TCL) to Vegetation Health Index: A Comparative Study Using Clear Sky and All-Weather Climate Data Records. <i>Remote Sensing</i> , 2018, 10, 1324.	4.0	34

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37	A climatological assessment of drought impact on vegetation health index. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 286-295.	4.8	118
38	Validation of reference evapotranspiration from Meteosat Second Generation (MSG) observations. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 271-285.	4.8	31
39	Inversion of AMSR-2 observations for land surface temperature estimation: 2. Global comparison with infrared satellite temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3348-3360.	3.3	22
40	Modelling directional effects on remotely sensed land surface temperature. <i>Remote Sensing of Environment</i> , 2017, 190, 56-69.	11.0	47
41	Advancing land surface model development with satellite-based Earth observations. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 2483-2495.	4.9	39
42	Improving Land Surface Temperature Retrievals over Mountainous Regions. <i>Remote Sensing</i> , 2017, 9, 38.	4.0	9
43	A Physically Constrained Calibration Database for Land Surface Temperature Using Infrared Retrieval Algorithms. <i>Remote Sensing</i> , 2016, 8, 808.	4.0	13
44	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.	4.0	100
45	Downscaling Meteosat Land Surface Temperature over a Heterogeneous Landscape Using a Data Assimilation Approach. <i>Remote Sensing</i> , 2016, 8, 586.	4.0	7
46	The summer diurnal cycle of coastal cloudiness over west Iberia using Meteosat/SEVIRI and a WRF regional climate model simulation. <i>International Journal of Climatology</i> , 2016, 36, 1755-1772.	3.5	13
47	A Thermodynamically Based Model for Actual Evapotranspiration of an Extensive Grass Field Close to FAO Reference, Suitable for Remote Sensing Application. <i>Journal of Hydrometeorology</i> , 2016, 17, 1373-1382.	1.9	33
48	Comparison of model land skin temperature with remotely sensed estimates and assessment of surface-atmosphere coupling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12,096.	3.3	73
49	Quality assessment and improvement of the EUMETSAT Meteosat Surface Albedo Climate Data Record. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 4561-4571.	3.1	10
50	Quality Assessment of S-NPP VIIRS Land Surface Temperature Product. <i>Remote Sensing</i> , 2015, 7, 12215-12241.	4.0	54
51	Meteosat Land Surface Temperature Climate Data Record: Achievable Accuracy and Potential Uncertainties. <i>Remote Sensing</i> , 2015, 7, 13139-13156.	4.0	74
52	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.	3.1	47
53	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.	11.0	105
54	Calibration of the Fire Weather Index over Mediterranean Europe based on fire activity retrieved from MSG satellite imagery. <i>International Journal of Wildland Fire</i> , 2014, 23, 945.	2.4	35

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55	Satellite-derived land surface temperature: Current status and perspectives. <i>Remote Sensing of Environment</i> , 2013, 131, 14-37.	11.0	1,545
56	IMILAST: A Community Effort to Intercompare Extratropical Cyclone Detection and Tracking Algorithms. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 529-547.	3.3	391
57	Land surface temperature from multiple geostationary satellites. <i>International Journal of Remote Sensing</i> , 2013, 34, 3051-3068.	2.9	85
58	Are Greenhouse Gas Signals of Northern Hemisphere winter extra-tropical cyclone activity dependent on the identification and tracking algorithm?. <i>Meteorologische Zeitschrift</i> , 2013, 22, 61-68.	1.0	77
59	Kalman filter physical retrieval of surface emissivity and temperature from geostationary infrared radiances. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 3613-3634.	3.1	61
60	Explosive development of winter storm Xynthia over the subtropical North Atlantic Ocean. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 2239-2251.	3.6	56
61	Incoming Solar and Infrared Radiation Derived from METEOSAT: Impact on the Modeled Land Water and Energy Budget over France. <i>Journal of Hydrometeorology</i> , 2012, 13, 504-520.	1.9	37
62	Large-Scale Atmospheric Circulation Driving Extreme Climate Events in the Mediterranean and its Related Impacts. , 2012, , 347-417.		25
63	An innovative physical scheme to retrieve simultaneously surface temperature and emissivities using high spectral infrared observations from IASI. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	22
64	Klaus " an exceptional winter storm over northern Iberia and southern France. <i>Weather</i> , 2011, 66, 330-334.	0.7	83
65	The Satellite Application Facility for Land Surface Analysis. <i>International Journal of Remote Sensing</i> , 2011, 32, 2725-2744.	2.9	207
66	Land surface albedo and downwelling shortwave radiation from MSG geostationary satellite: Method for retrieval, validation, and application. , 2011, , .		0
67	The state of climate in NW Iberia. <i>Climate Research</i> , 2011, 48, 109-144.	1.1	77
68	Reference crop evapotranspiration derived from geo-stationary satellite imagery: a case study for the Fogera flood plain, NW-Ethiopia and the Jordan Valley, Jordan. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2219-2228.	4.9	44
69	Estimation of downward longwave radiation at the surface combining remotely sensed data and NWP data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26
70	Synergistic use of the two-temperature and split-window methods for land-surface temperature retrieval. <i>International Journal of Remote Sensing</i> , 2010, 31, 4387-4409.	2.9	10
71	Quantifying the Uncertainty of Land Surface Temperature Retrievals From SEVIRI/Meteosat. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 523-534.	6.3	142
72	Rainfall patterns and critical values associated with landslides in Povoa do Varzim County (So Miguel) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 478-494.	2.6	73

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73	The Impact of North Atlantic Wind and Cyclone Trends on European Precipitation and Significant Wave Height in the Atlantic. <i>Annals of the New York Academy of Sciences</i> , 2008, 1146, 212-234.	3.8	99
74	Thermal Land Surface Emissivity Retrieved From SEVIRI/Meteosat. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 307-315.	6.3	99
75	Correction of 24m-temperature forecasts using Kalman Filtering technique. <i>Atmospheric Research</i> , 2008, 87, 183-197.	4.1	33
76	An assessment of remotely sensed land surface temperature. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	210
77	The Outstanding 2004/05 Drought in the Iberian Peninsula: Associated Atmospheric Circulation. <i>Journal of Hydrometeorology</i> , 2007, 8, 483-498.	1.9	208
78	On precursors of South American cyclogenesis. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2007, 59, 114-121.	1.7	30
79	Understanding Precipitation Changes in Iberia in Early Spring: Weather Typing and Storm-Tracking Approaches. <i>Journal of Hydrometeorology</i> , 2006, 7, 101-113.	1.9	184
80	Climatology and interannual variability of storm-tracks in the Euro-Atlantic sector: a comparison between ERA-40 and NCEP/NCAR reanalyses. <i>Climate Dynamics</i> , 2006, 26, 127-143.	3.8	244
81	Chapter 3 Relations between variability in the Mediterranean region and mid-latitude variability. <i>Developments in Earth and Environmental Sciences</i> , 2006, , 179-226.	0.1	71
82	Chapter 6 Cyclones in the Mediterranean region: Climatology and effects on the environment. <i>Developments in Earth and Environmental Sciences</i> , 2006, 4, 325-372.	0.1	99
83	The Influence of the North Atlantic Oscillation on Rainfall Triggering of Landslides near Lisbon. <i>Natural Hazards</i> , 2005, 36, 331-354.	3.4	73
84	Shallow and deep landslides induced by rainfall in the Lisbon region (Portugal): assessment of relationships with the North Atlantic Oscillation. <i>Natural Hazards and Earth System Sciences</i> , 2005, 5, 331-344.	3.6	190
85	Intercalibration of NOAA and Meteosat window channel brightness temperatures. <i>International Journal of Remote Sensing</i> , 2005, 26, 3717-3733.	2.9	13
86	How exceptional was the early August 2003 heatwave in France?. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	203
87	Climate impact of the European winter blocking episodes from the NCEP/NCAR Reanalyses. <i>Climate Dynamics</i> , 2004, 23, 17-28.	3.8	187
88	Clear-Sky Window Channel Radiances: A Comparison between Observations and the ECMWF Model. <i>Journal of Applied Meteorology and Climatology</i> , 2003, 42, 1463-1479.	1.7	29
89	Climatology of Cyclogenesis Mechanisms in the Mediterranean. <i>Monthly Weather Review</i> , 2002, 130, 549-569.	1.4	275
90	Meteorological conditions associated with sea surges in Venice: a 40 year climatology. <i>International Journal of Climatology</i> , 2002, 22, 787-803.	3.5	47

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91	Decline in Mediterranean rainfall caused by weakening of Mediterranean cyclones. Geophysical Research Letters, 2000, 27, 2913-2916.	4.0	124
92	Objective Climatology of Cyclones in the Mediterranean Region. Journal of Climate, 1999, 12, 1685-1696.	3.2	383
93	Moisture Sources and Large-Scale Dynamics Associated With a Flash Flood Event. Geophysical Monograph Series, 0, , 111-126.	0.1	30