

# Juan C Jimenez-Munoz

## List of Publications by Year in descending order

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99  
papers

7,969  
citations

81900

39  
h-index

51608

86  
g-index

99  
all docs

99  
docs citations

99  
times ranked

6951  
citing authors

#	ARTICLE	IF	CITATIONS
1	Land surface temperature retrieval from LANDSAT TM 5. Remote Sensing of Environment, 2004, 90, 434-440.	11.0	1,539
2	A generalized single-channel method for retrieving land surface temperature from remote sensing data. Journal of Geophysical Research, 2003, 108, .	3.3	656
3	Land Surface Temperature Retrieval Methods From Landsat-8 Thermal Infrared Sensor Data. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1840-1843.	3.1	621
4	Land Surface Emissivity Retrieval From Different VNIR and TIR Sensors. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 316-327.	6.3	518
5	Revision of the Single-Channel Algorithm for Land Surface Temperature Retrieval From Landsat Thermal-Infrared Data. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 339-349.	6.3	443
6	Record-breaking warming and extreme drought in the Amazon rainforest during the course of El Niño 2015–2016. Scientific Reports, 2016, 6, 33130.	3.3	413
7	Assessing canopy PRI for water stress detection with diurnal airborne imagery. Remote Sensing of Environment, 2008, 112, 560-575.	11.0	224
8	Detection of water stress in an olive orchard with thermal remote sensing imagery. Agricultural and Forest Meteorology, 2006, 136, 31-44.	4.8	186
9	Improved land surface emissivities over agricultural areas using ASTER NDVI. Remote Sensing of Environment, 2006, 103, 474-487.	11.0	156
10	Comparison Between Fractional Vegetation Cover Retrievals from Vegetation Indices and Spectral Mixture Analysis: Case Study of PROBA/CHRIS Data Over an Agricultural Area. Sensors, 2009, 9, 768-793.	3.8	134
11	Radiometric correction effects in Landsat multi-date/multi-sensor change detection studies. International Journal of Remote Sensing, 2006, 27, 685-704.	2.9	130
12	Application of a simple algorithm to estimate daily evapotranspiration from NOAA's AVHRR images for the Iberian Peninsula. Remote Sensing of Environment, 2007, 110, 139-148.	11.0	120
13	Improvements in land surface temperature retrieval from the Landsat series thermal band using water vapor and air temperature. Journal of Geophysical Research, 2009, 114, .	3.3	108
14	Land surface temperature derived from airborne hyperspectral scanner thermal infrared data. Remote Sensing of Environment, 2006, 102, 99-115.	11.0	104
15	Review of Thermal Infrared Applications and Requirements for Future High-Resolution Sensors. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2963-2972.	6.3	104
16	An Improved Single-Channel Method to Retrieve Land Surface Temperature from the Landsat-8 Thermal Band. Remote Sensing, 2018, 10, 431.	4.0	103
17	Split-Window Coefficients for Land Surface Temperature Retrieval From Low-Resolution Thermal Infrared Sensors. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 806-809.	3.1	100
18	A Single-Channel Algorithm for Land-Surface Temperature Retrieval From ASTER Data. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 176-179.	3.1	98

#	ARTICLE	IF	CITATIONS
19	Error sources on the land surface temperature retrieved from thermal infrared single channel remote sensing data. <i>International Journal of Remote Sensing</i> , 2006, 27, 999-1014.	2.9	95
20	Canopy directional emissivity: Comparison between models. <i>Remote Sensing of Environment</i> , 2005, 99, 304-314.	11.0	88
21	Temporal analysis of normalized difference vegetation index (NDVI) and land surface temperature (LST) parameters to detect changes in the Iberian land cover between 1981 and 2001. <i>International Journal of Remote Sensing</i> , 2011, 32, 2057-2068.	2.9	86
22	Evaluation of the surface urban heat island effect in the city of Madrid by thermal remote sensing. <i>International Journal of Remote Sensing</i> , 2013, 34, 3177-3192.	2.9	84
23	A simple algorithm to estimate evapotranspiration from DAIS data: Application to the DAISEX campaigns. <i>Journal of Hydrology</i> , 2005, 315, 117-125.	5.4	81
24	Atmospheric correction of optical imagery from MODIS and Reanalysis atmospheric products. <i>Remote Sensing of Environment</i> , 2010, 114, 2195-2210.	11.0	76
25	Monitoring yield and fruit quality parameters in open-canopy tree crops under water stress. Implications for ASTER. <i>Remote Sensing of Environment</i> , 2007, 107, 455-470.	11.0	73
26	Residual errors in ASTER temperature and emissivity standard products AST08 and AST05. <i>Remote Sensing of Environment</i> , 2011, 115, 3681-3694.	11.0	72
27	Single-channel and two-channel methods for land surface temperature retrieval from DAIS data and its application to the Barrax site. <i>International Journal of Remote Sensing</i> , 2004, 25, 215-230.	2.9	70
28	Accuracy of ASTER Level-2 thermal-infrared Standard Products of an agricultural area in Spain. <i>Remote Sensing of Environment</i> , 2007, 106, 146-153.	11.0	69
29	Spatial and temporal patterns of the recent warming of the Amazon forest. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5204-5215.	3.3	67
30	A method to estimate soil moisture from Airborne Hyperspectral Scanner (AHS) and ASTER data: Application to SEN2FLEX and SEN3EXP campaigns. <i>Remote Sensing of Environment</i> , 2012, 117, 415-428.	11.0	59
31	Emissivity mapping over urban areas using a classification-based approach: Application to the Dual-use European Security IR Experiment (DESIREX). <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 18, 141-147.	2.8	57
32	Feasibility of Retrieving Land-Surface Temperature From ASTER TIR Bands Using Two-Channel Algorithms: A Case Study of Agricultural Areas. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2007, 4, 60-64.	3.1	53
33	Thermal remote sensing in the framework of the SEN2FLEX project: field measurements, airborne data and applications. <i>International Journal of Remote Sensing</i> , 2008, 29, 4961-4991.	2.9	51
34	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.	11.0	49
35	The role of ENSO flavours and TNA on recent droughts over Amazon forests and the Northeast Brazil region. <i>International Journal of Climatology</i> , 2021, 41, 3761-3780.	3.5	48
36	Minimum configuration of thermal infrared bands for land surface temperature and emissivity estimation in the context of potential future missions. <i>Remote Sensing of Environment</i> , 2014, 148, 158-167.	11.0	47

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37	Land use classification from multitemporal Landsat imagery using the Yearly Land Cover Dynamics (YLCD) method. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2011, 13, 711-720.	2.8	45
38	Land surface temperature retrieval from thermal infrared data: An assessment in the context of the Surface Processes and Ecosystem Changes Through Response Analysis (SPECTRA) mission. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	43
39	Increased climate pressure on the agricultural frontier in the Eastern Amazonia's Cerrado transition zone. <i>Scientific Reports</i> , 2022, 12, 457.	3.3	43
40	Soil emissivity and reflectance spectra measurements. <i>Applied Optics</i> , 2009, 48, 3664.	2.1	40
41	Impacts of the broadband albedo on actual evapotranspiration estimated by S-SEBI model over an agricultural area. <i>Remote Sensing of Environment</i> , 2014, 147, 23-42.	11.0	40
42	Discriminating irrigated and rainfed olive orchards with thermal ASTER imagery and DART 3D simulation. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 962-975.	4.8	36
43	A Combined Optical-Microwave Method to Retrieve Soil Moisture Over Vegetated Areas. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 1404-1413.	6.3	36
44	Temperature and Emissivity Separation From MSG/SEVIRI Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 5937-5951.	6.3	36
45	Evaluation of the DART 3D model in the thermal domain using satellite/airborne imagery and ground-based measurements. <i>International Journal of Remote Sensing</i> , 2011, 32, 7453-7477.	2.9	33
46	Droughts Over Amazonia in 2005, 2010, and 2015: A Cloud Cover Perspective. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	30
47	The impact of the 2015/2016 El Niño on global photosynthesis using satellite remote sensing. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170409.	4.0	28
48	The new historical flood of 2021 in the Amazon River compared to major floods of the 21st century: Atmospheric features in the context of the intensification of floods. <i>Weather and Climate Extremes</i> , 2022, 35, 100406.	4.1	28
49	Global Atmospheric Profiles from Reanalysis Information (GAPRI): a new database for earth surface temperature retrieval. <i>International Journal of Remote Sensing</i> , 2015, 36, 5045-5060.	2.9	27
50	Surface emissivity retrieval from Digital Airborne Imaging Spectrometer data. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 24-1-ACL 24-13.	3.3	26
51	Improved Temperature and Emissivity Separation Algorithm for Multispectral and Hyperspectral Sensors. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1944-1953.	6.3	26
52	LST retrieval algorithm adapted to the Amazon evergreen forests using MODIS data. <i>Remote Sensing of Environment</i> , 2018, 204, 401-411.	11.0	26
53	Intercomparison of remote-sensing based evapotranspiration algorithms over amazonian forests. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 80, 280-294.	2.8	26
54	Thermal remote sensing from Airborne Hyperspectral Scanner data in the framework of the SPARC and SEN2FLEX projects: an overview. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 2031-2037.	4.9	25

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55	Spatio-temporal patterns of thermal anomalies and drought over tropical forests driven by recent extreme climatic anomalies. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170300.	4.0	24
56	Vicarious Calibration of the Landsat 7 Thermal Infrared Band and LST Algorithm Validation of the ETM+ Instrument Using Three Global Atmospheric Profiles. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1804-1811.	6.3	23
57	Evaluation of Terra/MODIS atmospheric profiles product (MOD07) over the Iberian Peninsula: a comparison with radiosonde stations. <i>International Journal of Digital Earth</i> , 2015, 8, 771-783.	3.9	22
58	Recent trends on glacier area retreat over the group of Nevados Caullaraju-Pastoruri (Cordillera Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.4	22
59	OCO-2 Solar-Induced Chlorophyll Fluorescence Variability across Ecoregions of the Amazon Basin and the Extreme Drought Effects of El Niño (2015–2016). <i>Remote Sensing</i> , 2020, 12, 1202.	4.0	19
60	Warming trends in Patagonian subantarctic forest. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 76, 51-65.	2.8	18
61	A simplified method for estimating the total water vapor content over sea surfaces using NOAA-AVHRR channels 4 and 5. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002, 40, 357-361.	6.3	17
62	The Extreme Heat Wave over Western North America in 2021: An Assessment by Means of Land Surface Temperature. <i>Remote Sensing</i> , 2022, 14, 561.	4.0	17
63	Recent trends in solar exergy and net radiation at global scale. <i>Ecological Modelling</i> , 2012, 228, 59-65.	2.5	16
64	Emissivity spectra obtained from field and laboratory measurements using the temperature and emissivity separation algorithm. <i>Applied Optics</i> , 2006, 45, 7104.	2.1	15
65	Validation of a temperature emissivity separation hybrid method from airborne hyperspectral scanner data and ground measurements in the SEN2FLEX field campaign. <i>International Journal of Remote Sensing</i> , 2008, 29, 7251-7268.	2.9	15
66	Near-Real-Time Estimation of Water Vapor Column From MSG-SEVIRI Thermal Infrared Bands: Implications for Land Surface Temperature Retrieval. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 4231-4237.	6.3	15
67	Digital thermal monitoring of the Amazon forest: an intercomparison of satellite and reanalysis products. <i>International Journal of Digital Earth</i> , 2016, 9, 477-498.	3.9	15
68	Correction to "A generalized single-channel method for retrieving land surface temperature from remote sensing data" by Juan C. Jiménez-Muñoz and José A. Sobrino. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	14
69	Surface Emissivity Retrieval From Airborne Hyperspectral Scanner Data: Insights on Atmospheric Correction and Noise Removal. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012, 9, 180-184.	3.1	14
70	Mapping wild pear trees ( <i>Pyrus bourgaeana</i> ) in Mediterranean forest using high-resolution QuickBird satellite imagery. <i>International Journal of Remote Sensing</i> , 2013, 34, 3376-3396.	2.9	12
71	A database for the monitoring of thermal anomalies over the Amazon forest and adjacent intertropical oceans. <i>Scientific Data</i> , 2015, 2, 150024.	5.3	12
72	Mapping sub-pixel burnt percentage using AVHRR data. Application to the Alcalaten area in Spain. <i>International Journal of Remote Sensing</i> , 2010, 31, 5315-5330.	2.9	11

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73	Spatial analysis of the homogeneity of the land surface temperature in three Spanish test sites. <i>International Journal of Remote Sensing</i> , 2015, 36, 4793-4807.	2.9	10
74	Spatio-Temporal Variability of the Precipitable Water Vapor over Peru through MODIS and ERA-Interim Time Series. <i>Atmosphere</i> , 2019, 10, 192.	2.3	9
75	Atmospheric water vapour content retrieval from visible and thermal data in the framework of the DAISEX campaigns. <i>International Journal of Remote Sensing</i> , 2005, 26, 3163-3180.	2.9	8
76	Estimation of the Spatially Distributed Surface Energy Budget for AgriSAR 2006, Part I: Remote Sensing Model Intercomparison. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2011, 4, 465-481.	4.9	8
77	Evapotranspiration Estimation with the S-SEBI Method from Landsat 8 Data against Lysimeter Measurements at the Barrax Site, Spain. <i>Remote Sensing</i> , 2021, 13, 3686.	4.0	8
78	In-scene atmospheric correction of hyperspectral thermal infrared images with nadir, horizontal, and oblique view angles. <i>International Journal of Remote Sensing</i> , 2013, 34, 3164-3176.	2.9	7
79	Has the Northern Hemisphere been warming or cooling during the boreal winter of the last few decades?. <i>Global and Planetary Change</i> , 2013, 106, 31-38.	3.5	6
80	MODIS-Based Monthly LST Products over Amazonia under Different Cloud Mask Schemes. <i>Data</i> , 2016, 1, 2.	2.3	6
81	Editorial: Tropical Climate Variability and Change: Impacts in the Amazon. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	6
82	MODIS probabilistic cloud masking over the Amazonian evergreen tropical forests: a comparison of machine learning-based methods. <i>International Journal of Remote Sensing</i> , 2020, 41, 185-210.	2.9	6
83	Chapter 22: Long-term variability, extremes, and changes in temperature and hydro meteorology. , 2021, , .		4
84	Fluorescence estimation in the framework of the CEFLES2 campaign. <i>International Journal of Remote Sensing</i> , 2011, 32, 5875-5889.	2.9	3
85	Comment on "Ecological importance of the thermal emissivity of avian eggshells". <i>Journal of Theoretical Biology</i> , 2012, 304, 304-307.	1.7	3
86	Comparison of MODIS and Landsat-8 retrievals of Chlorophyll-a and water temperature over Lake Titicaca. , 2016, , .		3
87	Estimation of the Spatially Distributed Surface Energy Budget for AgriSAR 2006, Part II: Integration of Remote Sensing and Hydrologic Modeling. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2011, 4, 482-493.	4.9	2
88	Land cover dynamic analysis over the Mediterranean Basin by means of remotely sensed and climate data. , 2004, , .		1
89	Multi-temporal analysis of MODIS Land Products over the Amazon region. , 2012, , .		1
90	Episodios térmicos extremos analizados con productos MODIS durante el invierno boreal (2000-2016). <i>Revista De Teledeteccion</i> , 2016, , 19.	0.6	1

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91	Angular effect on surface temperature estimation from AATSR data. , 0, , .		0
92	Land surface temperature and NDVI time series derived from NOAA-Pathfinder images and reanalysis data over the Mediterranean Basin. , 0, , .		0
93	Synergistic use of DAIS bands to retrieve land surface emissivity and temperature. , 0, , .		0
94	Characterization of thermal parameters in support of SIFLEX campaign. , 2004, 5232, 658.		0
95	Retrieval Of Daily Evapotranspiration From Remote Sensing Images Of High And Low Spatial Resolution. Application To The Iberian Peninsula. AIP Conference Proceedings, 2006, , .	0.4	0
96	Detecting crop irrigation status in orchard canopies with airborne and ASTER thermal imagery. , 2007, , .		0
97	Surface temperature in the context of FLuorescence EXplorer (FLEX) mission. , 2007, , .		0
98	Using NASA'S Long Term Data Record version 3 for the monitoring of land surface vegetation. , 2011, , .		0
99	Review of High Resolution Thermal Infrared Applications and Requirements: The Fuegosat Synthesis Study. Remote Sensing and Digital Image Processing, 2013, , 197-214.	0.7	0