

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
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99
all docs

99
docs citations

99
times ranked

6951
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased climate pressure on the agricultural frontier in the Eastern Amazoniaâ€Cerrado transition zone. <i>Scientific Reports</i> , 2022, 12, 457.	3.3	43
2	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
3	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
4	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
5	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
6	Chapter 22: Long-term variability, extremes, and changes in temperature and hydro meteorology. , 2021, , .		4
7	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
8	OCO-2 Solar-Induced Chlorophyll Fluorescence Variability across Ecoregions of the Amazon Basin and the Extreme Drought Effects of El NiÃ±o (2015â€2016). <i>Remote Sensing</i> , 2020, 12, 1202.	4.0	19
9	Editorial: Tropical Climate Variability and Change: Impacts in the Amazon. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	6
10	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
11	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
12	Warming trends in Patagonian subantartic forest. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 76, 51-65.	2.8	18
13	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
14	Droughts Over Amazonia in 2005, 2010, and 2015: A Cloud Cover Perspective. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	30
15	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
16	The impact of the 2015/2016 El NiÃ±o on global photosynthesis using satellite remote sensing. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170409.	4.0	28
17	An Improved Single-Channel Method to Retrieve Land Surface Temperature from the Landsat-8 Thermal Band. <i>Remote Sensing</i> , 2018, 10, 431.	4.0	103
18	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

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19	Vicarious Calibration of the Landsat 7 Thermal Infrared Band and LST Algorithm Validation of the ETM+ Instrument Using Three Global Atmospheric Profiles. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1804-1811.	6.3	23
20	MODIS-Based Monthly LST Products over Amazonia under Different Cloud Mask Schemes. Data, 2016, 1, 2.	2.3	6
21	Synergistic use of MERIS and AATSR as a proxy for estimating Land Surface Temperature from Sentinel-3 data. Remote Sensing of Environment, 2016, 179, 149-161.	11.0	49
22	Comparison of MODIS and Landsat-8 retrievals of Chlorophyll-a and water temperature over Lake Titicaca. , 2016, , .		3
23	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
24	Digital thermal monitoring of the Amazon forest: an intercomparison of satellite and reanalysis products. International Journal of Digital Earth, 2016, 9, 477-498.	3.9	15
25	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
26	Episodios térmicos extremos analizados con productos MODIS durante el invierno boreal (2000-2016). Revista De Teledeteccion, 2016, , 19.	0.6	1
27	A database for the monitoring of thermal anomalies over the Amazon forest and adjacent intertropical oceans. Scientific Data, 2015, 2, 150024.	5.3	12
28	Evaluation of Terra/MODIS atmospheric profiles product (MOD07) over the Iberian Peninsula: a comparison with radiosonde stations. International Journal of Digital Earth, 2015, 8, 771-783.	3.9	22
29	Global Atmospheric Profiles from Reanalysis Information (GAPRI): a new database for earth surface temperature retrieval. International Journal of Remote Sensing, 2015, 36, 5045-5060.	2.9	27
30	Recent trends on glacier area retreat over the group of Nevados Caullaraju-Pastoruri (Cordillera) Tj ETQqO O O rgBT (Overlock, 10 Tf 50 30	1.4	22
31	Near-Real-Time Estimation of Water Vapor Column From MSG-SEVIRI Thermal Infrared Bands: Implications for Land Surface Temperature Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4231-4237.	6.3	15
32	Spatial analysis of the homogeneity of the land surface temperature in three Spanish test sites. International Journal of Remote Sensing, 2015, 36, 4793-4807.	2.9	10
33	Minimum configuration of thermal infrared bands for land surface temperature and emissivity estimation in the context of potential future missions. Remote Sensing of Environment, 2014, 148, 158-167.	11.0	47
34	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
35	Temperature and Emissivity Separation From MSG/SEVIRI Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5937-5951.	6.3	36
36	Impacts of the broadband albedo on actual evapotranspiration estimated by S-SEBI model over an agricultural area. Remote Sensing of Environment, 2014, 147, 23-42.	11.0	40

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37	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
38	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
39	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
40	Review of High Resolution Thermal Infrared Applications and Requirements: The Fuegosat Synthesis Study. <i>Remote Sensing and Digital Image Processing</i> , 2013, , 197-214.	0.7	0
41	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
42	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
43	Multi-temporal analysis of MODIS Land Products over the Amazon region. , 2012, , .		1
44	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
45	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
46	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
47	Recent trends in solar exergy and net radiation at global scale. <i>Ecological Modelling</i> , 2012, 228, 59-65.	2.5	16
48	Comment on "Ecological importance of the thermal emissivity of avian eggshells". <i>Journal of Theoretical Biology</i> , 2012, 304, 304-307.	1.7	3
49	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
50	Using NASA'S Long Term Data Record version 3 for the monitoring of land surface vegetation. , 2011, , .		0
51	Fluorescence estimation in the framework of the CEFLES2 campaign. <i>International Journal of Remote Sensing</i> , 2011, 32, 5875-5889.	2.9	3
52	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
53	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
54	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

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55	Residual errors in ASTER temperature and emissivity standard products AST08 and AST05. Remote Sensing of Environment, 2011, 115, 3681-3694.	11.0	72
56	Estimation of the Spatially Distributed Surface Energy Budget for AgriSAR 2006, Part II: Integration of Remote Sensing and Hydrologic Modeling. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 482-493.	4.9	2
57	Estimation of the Spatially Distributed Surface Energy Budget for AgriSAR 2006, Part I: Remote Sensing Model Intercomparison. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 465-481.	4.9	8
58	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
59	Atmospheric correction of optical imagery from MODIS and Reanalysis atmospheric products. Remote Sensing of Environment, 2010, 114, 2195-2210.	11.0	76
60	Mapping sub-pixel burnt percentage using AVHRR data. Application to the Alcalaten area in Spain. International Journal of Remote Sensing, 2010, 31, 5315-5330.	2.9	11
61	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
62	Discriminating irrigated and rainfed olive orchards with thermal ASTER imagery and DART 3D simulation. Agricultural and Forest Meteorology, 2009, 149, 962-975.	4.8	36
63	Soil emissivity and reflectance spectra measurements. Applied Optics, 2009, 48, 3664.	2.1	40
64	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
65	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
66	Thermal remote sensing from Airborne Hyperspectral Scanner data in the framework of the SPARC and SEN2FLEX projects: an overview. Hydrology and Earth System Sciences, 2009, 13, 2031-2037.	4.9	25
67	Assessing canopy PRI for water stress detection with diurnal airborne imagery. Remote Sensing of Environment, 2008, 112, 560-575.	11.0	224
68	Land Surface Emissivity Retrieval From Different VNIR and TIR Sensors. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 316-327.	6.3	518
69	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
70	Thermal remote sensing in the framework of the SEN2FLEX project: field measurements, airborne data and applications. International Journal of Remote Sensing, 2008, 29, 4961-4991.	2.9	51
71	Validation of a temperature emissivity separation hybrid method from airborne hyperspectral scanner data and ground measurements in the SEN2FLEX field campaign. International Journal of Remote Sensing, 2008, 29, 7251-7268.	2.9	15
72	Detecting crop irrigation status in orchard canopies with airborne and ASTER thermal imagery. , 2007, , .		0

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73	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
74	Surface temperature in the context of FLuorescence EXplorer (FLEX) mission. , 2007, , .		0
75	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
76	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
77	Application of a simple algorithm to estimate daily evapotranspiration from NOAA's AVHRR images for the Iberian Peninsula. <i>Remote Sensing of Environment</i> , 2007, 110, 139-148.	11.0	120
78	Radiometric correction effects in Landsat multi-date/multi-sensor change detection studies. <i>International Journal of Remote Sensing</i> , 2006, 27, 685-704.	2.9	130
79	Detection of water stress in an olive orchard with thermal remote sensing imagery. <i>Agricultural and Forest Meteorology</i> , 2006, 136, 31-44.	4.8	186
80	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
81	Land surface temperature derived from airborne hyperspectral scanner thermal infrared data. <i>Remote Sensing of Environment</i> , 2006, 102, 99-115.	11.0	104
82	Improved land surface emissivities over agricultural areas using ASTER NDVI. <i>Remote Sensing of Environment</i> , 2006, 103, 474-487.	11.0	156
83	Retrieval Of Daily Evapotranspiration From Remote Sensing Images Of High And Low Spatial Resolution. Application To The Iberian Peninsula. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
84	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
85	Canopy directional emissivity: Comparison between models. <i>Remote Sensing of Environment</i> , 2005, 99, 304-314.	11.0	88
86	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
87	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
88	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
89	Land surface temperature retrieval from LANDSAT TM 5. <i>Remote Sensing of Environment</i> , 2004, 90, 434-440.	11.0	1,539
90	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

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91	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. Journal of Geophysical Research, 2004, 109, .	3.3	14
92	Characterization of thermal parameters in support of SIFLEX campaign. , 2004, 5232, 658.		0
93	Land cover dynamic analysis over the Mediterranean Basin by means of remotely sensed and climate data. , 2004, , .		1
94	A generalized single-channel method for retrieving land surface temperature from remote sensing data. Journal of Geophysical Research, 2003, 108, .	3.3	656
95	Surface emissivity retrieval from Digital Airborne Imaging Spectrometer data. Journal of Geophysical Research, 2002, 107, ACL 24-1-ACL 24-13.	3.3	26
96	A simplified method for estimating the total water vapor content over sea surfaces using NOAA-AVHRR channels 4 and 5. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 357-361.	6.3	17
97	Angular effect on surface temperature estimation from AATSR data. , 0, , .		0
98	Land surface temperature and NDVI time series derived from NOAA-Pathfinder images and reanalysis data over the Mediterranean Basin. , 0, , .		0
99	Synergistic use of DAIS bands to retrieve land surface emissivity and temperature. , 0, , .		0