

# Enric Valor

## List of Publications by Year in descending order

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84  
papers

3,554  
citations

218381

26  
h-index

138251

58  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping land surface emissivity from NDVI: Application to European, African, and South American areas. <i>Remote Sensing of Environment</i> , 1996, 57, 167-184.	4.6	631
2	CO2 Prices, Energy and Weather. <i>Energy Journal</i> , 2007, 28, 73-92.	0.9	306
3	Temperature and seasonality influences on Spanish electricity load. <i>Energy Economics</i> , 2002, 24, 55-70.	5.6	266
4	Ground measurements for the validation of land surface temperatures derived from AATSR and MODIS data. <i>Remote Sensing of Environment</i> , 2005, 97, 288-300.	4.6	261
5	Daily Air Temperature and Electricity Load in Spain. <i>Journal of Applied Meteorology and Climatology</i> , 2001, 40, 1413-1421.	1.7	222
6	On the atmospheric dependence of the split-window equation for land surface temperature. <i>International Journal of Remote Sensing</i> , 1994, 15, 105-122.	1.3	221
7	Influence of soil water content on the thermal infrared emissivity of bare soils: Implication for land surface temperature determination. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	117
8	Temperature and emissivity separation from ASTER data for low spectral contrast surfaces. <i>Remote Sensing of Environment</i> , 2007, 110, 162-175.	4.6	93
9	Thermal infrared emissivities of natural surfaces: improvements on the experimental set-up and new measurements. <i>International Journal of Remote Sensing</i> , 2003, 24, 5379-5390.	1.3	87
10	Spanish Stock Returns: Where is the Weather Effect?. <i>European Financial Management</i> , 2003, 9, 117-126.	1.7	82
11	Comparison between different sources of atmospheric profiles for land surface temperature retrieval from single channel thermal infrared data. <i>Remote Sensing of Environment</i> , 2012, 117, 199-210.	4.6	80
12	An Atmospheric Radiosounding Database for Generating Land Surface Temperature Algorithms. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1547-1557.	2.7	79
13	Land surface emissivity and temperature determination in the whole HAPEX-Sahel area from AVHRR data. <i>International Journal of Remote Sensing</i> , 1997, 18, 1009-1027.	1.3	73
14	Monitoring daily evapotranspiration at a regional scale from Landsat-TM and ETM+ data: Application to the Basilicata region. <i>Journal of Hydrology</i> , 2008, 351, 58-70.	2.3	65
15	Long-term accuracy assessment of land surface temperatures derived from the Advanced Along-Track Scanning Radiometer. <i>Remote Sensing of Environment</i> , 2012, 116, 211-225.	4.6	58
16	Soil Moisture Effect on Thermal Infrared (8-14µm) Emissivity. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 2251-2260.	2.7	53
17	Thermal band selection for the PRISM instrument: 1. Analysis of emissivity-temperature separation algorithms. <i>Journal of Geophysical Research</i> , 1997, 102, 11145-11164.	3.3	47
18	In situ angular measurements of thermal infrared sea surface emissivity Validation of models. <i>Remote Sensing of Environment</i> , 2005, 94, 83-93.	4.6	47

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19	On the angular variation of thermal infrared emissivity of inorganic soils. Journal of Geophysical Research, 2012, 117, .	3.3	45
20	Determination of sea surface temperature at large observation angles using an angular and emissivity-dependent split-window equation. Remote Sensing of Environment, 2007, 111, 107-121.	4.6	38
21	On the thermodynamic origin of metabolic scaling. Scientific Reports, 2018, 8, 1448.	1.6	35
22	Evaluation of split-window and dual-angle correction methods for land surface temperature retrieval from Envisat/Advanced Along Track Scanning Radiometer (AATSR) data. Journal of Geophysical Research, 2006, 111, .	3.3	32
23	Thermal Infrared Emissivity Dependence on Soil Moisture in Field Conditions. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4652-4659.	2.7	31
24	Thermal-Infrared Spectral and Angular Characterization of Crude Oil and Seawater Emissivities for Oil Slick Identification. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5387-5395.	2.7	30
25	Automatic classification-based generation of thermal infrared land surface emissivity maps using AATSR data over Europe. Remote Sensing of Environment, 2012, 124, 321-333.	4.6	29
26	Analyzing the anisotropy of thermal infrared emissivity over arid regions using a new MODIS land surface temperature and emissivity product (MOD21). Remote Sensing of Environment, 2015, 169, 212-221.	4.6	29
27	Mapping land surface emissivity using AVHRR data application to La Mancha, Spain. International Journal of Remote Sensing, 1995, 12, 311-333.	1.1	26
28	Temperature and emissivity separation from calibrated data of the Digital Airborne Imaging Spectrometer. Remote Sensing of Environment, 2001, 76, 250-259.	4.6	23
29	Angular variations of brightness surface temperatures derived from dual-view measurements of the Advanced Along-Track Scanning Radiometer using a new single band atmospheric correction method. Remote Sensing of Environment, 2019, 223, 274-290.	4.6	23
30	Comparison of Thermal Infrared Emissivities Retrieved With the Two-Lid Box and the TES Methods With Laboratory Spectra. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1012-1021.	2.7	22
31	Evaluation of the S-NPP VIIRS land surface temperature product using ground data acquired by an autonomous system at a rice paddy. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 135, 1-12.	4.9	22
32	Validation of temperature-emissivity separation and split-window methods from TIMS data and ground measurements. Remote Sensing of Environment, 2003, 85, 232-242.	4.6	20
33	Effective wavenumber for thermal infrared bands-application to Landsat-TM. International Journal of Remote Sensing, 1998, 19, 2105-2117.	1.3	19
34	Evaluation of Different Methods to Retrieve the Hemispherical Downwelling Irradiance in the Thermal Infrared Region for Field Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2155-2165.	2.7	19
35	Autonomous Measurements of Sea Surface Temperature Using In Situ Thermal Infrared Data. Journal of Atmospheric and Oceanic Technology, 2004, 21, 683-692.	0.5	17
36	CO2 Prices, Energy and Weather. SSRN Electronic Journal, 0, , .	0.4	17

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37	Single Factor Stochastic Models with Seasonality Applied to Underlying Weather Derivatives Variables. <i>Journal of Risk Finance</i> , 2003, 4, 6-17.	3.6	16
38	Evaluation of the $\epsilon$ method for determining actual evapotranspiration in a boreal forest from MODIS data. <i>International Journal of Remote Sensing</i> , 2007, 28, 1231-1250.	1.3	16
39	Foam effect on the sea surface emissivity in the $14^{\circ}$ $\mu$ region. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	16
40	A simple equation for determining sea surface emissivity in the $15^{\circ}$ $\mu$ region. <i>International Journal of Remote Sensing</i> , 2009, 30, 1603-1619.	1.3	16
41	Effect of Soil Moisture on the Angular Variation of Thermal Infrared Emissivity of Inorganic Soils. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1091-1095.	1.4	16
42	Thermal band selection for the PRISM instrument: 3. Optimal band configurations. <i>Journal of Geophysical Research</i> , 1998, 103, 17057-17067.	3.3	14
43	SMOS Level-2 Soil Moisture Product Evaluation in Rain-Fed Croplands of the Pampean Region of Argentina. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 499-512.	2.7	14
44	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
45	Thermal band selection for the PRISM instrument: 2. Analysis and comparison of existing atmospheric and emissivity correction methods for land surface temperature recovery. <i>Journal of Geophysical Research</i> , 1997, 102, 19611-19627.	3.3	13
46	Adjusted Normalized Emissivity Method for surface temperature and emissivity retrieval from optical and thermal infrared remote sensing data. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	13
47	Laboratory calibration and field measurement of land surface temperature and emissivity using thermal infrared multiband radiometers. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 78, 227-239.	1.4	11
48	Comparison and Evaluation of the TES and ANEM Algorithms for Land Surface Temperature and Emissivity Separation over the Area of Valencia, Spain. <i>Remote Sensing</i> , 2017, 9, 1251.	1.8	10
49	Temperature and emissivity extracted from airborne multi-channel data in the ReSeDA experiment. <i>Agronomy for Sustainable Development</i> , 2002, 22, 567-573.	0.8	10
50	Pixel-oriented land use classification in energy balance modelling. <i>Hydrological Processes</i> , 2014, 28, 25-36.	1.1	9
51	Analysis of thermal infrared data from the Digital Airborne Imaging Spectrometer. <i>International Journal of Remote Sensing</i> , 2001, 22, 3703-3718.	1.3	8
52	Simulation and validation of land surface temperature algorithms for MODIS and AATSR data. <i>Tethys</i> , 2007, 4, .	0.0	8
53	Atmospheric correction and determination of sea surface temperature in midlatitudes from NOAA-AVHRR data. <i>Atmospheric Research</i> , 1993, 30, 233-250.	1.8	7
54	Analysis of ASTER Emissivity Product Over an Arid Area in Southern New Mexico, USA. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 1316-1324.	2.7	7

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55	Validation and comparison of two models based on the Mie theory to predict 8 $\mu\text{m}$ emissivity spectra of mineral surfaces. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1739-1757.	1.4	7
56	Influence of the soil moisture effect on the thermal infrared emissivity. <i>Tethys</i> , 2007, 4, .	0.0	7
57	Single Factor Stochastic Models with Seasonality Applied to Underlying Weather Derivatives Variables. <i>SSRN Electronic Journal</i> , 2001, , .	0.4	5
58	Night-time cloud cover estimation. <i>International Journal of Remote Sensing</i> , 2004, 25, 2193-2205.	1.3	5
59	In situ surface temperature retrieval in a boreal forest under variable cloudiness conditions. <i>International Journal of Remote Sensing</i> , 2005, 26, 3985-4000.	1.3	5
60	Simulation of a medium-scale-surface-temperature instrument from Thematic Mapper data. <i>International Journal of Remote Sensing</i> , 2000, 21, 3153-3159.	1.3	4
61	The Adjusted Normalized Emissivity Method (ANEM) for land surface temperature and emissivity recovery. , 0, , .		4
62	Estimation of atmospheric water vapour content from direct measurements of radiance in the thermal infrared region. <i>Remote Sensing Letters</i> , 2012, 3, 31-38.	0.6	4
63	Comparison of Split-Window and Single-Channel Methods for Land Surface Temperature Retrieval from MODIS and AATSR Data. , 2008, , .		3
64	Angular dependence of the emissivity of bare soils in the thermal infrared. , 2009, , .		3
65	Single band atmospheric correction tool for thermal infrared data: application to Landsat 7 ETM+. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
66	Evapotranspiration Retrieval Using S-SEBI Model with Landsat-8 Split-Window Land Surface Temperature Products over Two European Agricultural Crops. <i>Remote Sensing</i> , 2022, 14, 2723.	1.8	3
67	NEDT influence in the thermal band selection of satellite-borne instruments. <i>International Journal of Remote Sensing</i> , 2002, 23, 3493-3504.	1.3	2
68	Emissivity errors in the vegetation cover method caused by the lack of atmospheric correction. <i>International Journal of Remote Sensing</i> , 2008, 29, 1825-1832.	1.3	2
69	Automatic Generation of Land Surface Emissivity Maps. , 2011, , .		2
70	Predictive Power of the Emissivity Angular Variation of Soils in the Thermal Infrared (8 $\mu\text{m}$ to 14 $\mu\text{m}$ ) /Overlock 10 Tf 50 147 T Mie-Based Emissivity Theoretical Models. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 1115-1119.	1.4	2
71	Evaluation of Six Directional Canopy Emissivity Models in the Thermal Infrared Using Emissivity Measurements. <i>Remote Sensing</i> , 2019, 11, 3011.	1.8	2
72	Vicarious calibration and validation in the thermal region. , 2002, 4538, 189.		1

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73	Sea surface emissivity angular measurements: comparison with theoretical models. , 2004, , .		1
74	Improvement of the thermal emissivity calculated with the vegetation cover method by using optical atmospherically corrected images. , 2007, , .		1
75	An enhanced vegetation cover method for automatic generation of land surface emissivity maps. Proceedings of SPIE, 2009, , .	0.8	1
76	Physics Demos for All UVEG Degrees: A Unique Project in Spain. Procedia, Social and Behavioral Sciences, 2016, 228, 628-632.	0.5	1
77	Comparison of in Situ Land Surface Temperatures Measured with Radiometers and Pyrometers: Consequences for Calibration and Validation of Thermal Infrared Sensors. , 2018, , .		1
78	Air-canopy temperature difference for fluorescence emission models. , 0, , .		0
79	High-accuracy sea surface temperature retrieval. , 0, , .		0
80	A Cloudless land atmosphere radiosounding database for generating land surface temperature retrieval algorithms. , 2007, , .		0
81	Comparison of field emissivities with laboratory measurements and ASTER data. Proceedings of SPIE, 2008, , .	0.8	0
82	Automatic generation of emissivity maps on a European scale. , 2009, , .		0
83	Comparison of Canopy Emissivity Parametric Models With TES Emissivity Measurements. , 2018, , .		0
84	Determination of the surface temperature by remote sensing. Tethys, 0, , .	0.0	0