

Ernesto Lopez-Baeza

List of Publications by Year in descending order

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59
papers

2,172
citations

331670

21
h-index

276875

41
g-index

72
all docs

72
docs citations

72
times ranked

2269
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of SMAP surface soil moisture products with core validation sites. Remote Sensing of Environment, 2017, 191, 215-231.	11.0	503
2	Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using In Situ Measurements. Journal of Hydrometeorology, 2017, 18, 2621-2645.	1.9	196
3	SMOS-IC: An Alternative SMOS Soil Moisture and Vegetation Optical Depth Product. Remote Sensing, 2017, 9, 457.	4.0	195
4	The SMAP and Copernicus Sentinel 1A/B microwave active-passive high resolution surface soil moisture product. Remote Sensing of Environment, 2019, 233, 111380.	11.0	175
5	Two-year global simulation of L-band brightness temperatures over land. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 2135-2139.	6.3	108
6	First evaluation of the simultaneous SMOS and ELBARA-II observations in the Mediterranean region. Remote Sensing of Environment, 2012, 124, 26-37.	11.0	105
7	Narrow-band to broad-band conversion for Meteosat-visible channel and broad-band albedo using both AVHRR-1 and -2 channels. International Journal of Remote Sensing, 1995, 16, 1147-1166.	2.9	76
8	Surface Soil Moisture Retrieval Using the L-Band Synthetic Aperture Radar Onboard the Soil Moisture Activeâ€“Passive Satellite and Evaluation at Core Validation Sites. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1897-1914.	6.3	64
9	Validation of Soil Moisture Data Products From the NASA SMAP Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 364-392.	4.9	62
10	The SMAP mission combined active-passive soil moisture product at 9â€“km and 3â€“km spatial resolutions. Remote Sensing of Environment, 2018, 211, 204-217.	11.0	59
11	CAROLS: A New Airborne L-Band Radiometer for Ocean Surface and Land Observations. Sensors, 2011, 11, 719-742.	3.8	51
12	An assessment of the differences between spatial resolution and grid size for the SMAP enhanced soil moisture product over homogeneous sites. Remote Sensing of Environment, 2018, 207, 65-70.	11.0	46
13	A new calibration of the effective scattering albedo and soil roughness parameters in the SMOS SM retrieval algorithm. International Journal of Applied Earth Observation and Geoinformation, 2017, 62, 27-38.	2.8	44
14	Roughness and vegetation parameterizations at L-band for soil moisture retrievals over a vineyard field. Remote Sensing of Environment, 2015, 170, 269-279.	11.0	40
15	Observation and integrated Earth-system science: A roadmap for 2016â€“2025. Advances in Space Research, 2016, 57, 2037-2103.	2.6	35
16	The SMOS Mediterranean Ecosystem L-Band characterisation EXperiment (MELBEX-I) over natural shrubs. Remote Sensing of Environment, 2010, 114, 844-853.	11.0	34
17	Modelling soil moisture at SMOS scale by use of a SVAT model over the Valencia Anchor Station. Hydrology and Earth System Sciences, 2010, 14, 831-846.	4.9	34
18	L-Band Radiative Properties of Vine Vegetation at the MELBEX III SMOS Cal/Val Site. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1587-1601.	6.3	34

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19	Conversion of nadir, narrowband reflectance in red and near-infrared channels to hemispherical surface albedo. <i>Remote Sensing of Environment</i> , 1997, 61, 16-23.	11.0	33
20	The EuroSTARRS airborne campaign in support of the SMOS mission: first results over land surfaces. <i>International Journal of Remote Sensing</i> , 2004, 25, 177-194.	2.9	31
21	Comparison of SMOS and SMAP soil moisture retrieval approaches using tower-based radiometer data over a vineyard field. <i>Remote Sensing of Environment</i> , 2014, 154, 89-101.	11.0	27
22	SMOS REFLEX 2003: L-band emissivity characterization of vineyards. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 973-982.	6.3	24
23	Soil moisture modelling of a SMOS pixel: interest of using the PERSIANN database over the Valencia Anchor Station. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 1509-1525.	4.9	19
24	Synergetic Exploitation of the Sentinel-2 Missions for Validating the Sentinel-3 Ocean and Land Color Instrument Terrestrial Chlorophyll Index Over a Vineyard Dominated Mediterranean Environment. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 2244-2251.	4.9	18
25	Estimating net radiation at surface using artificial neural networks: a new approach. <i>Theoretical and Applied Climatology</i> , 2011, 106, 263-279.	2.8	16
26	Angstrom's thermal diffusivity method for short samples. <i>Journal Physics D: Applied Physics</i> , 1987, 20, 1156-1158.	2.8	14
27	The CoSMOS L-band experiment in Southeast Australia. , 2007, , .		9
28	Environmental sustainability assessment of organic vineyard practices from a life cycle perspective. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 4645-4658.	3.5	9
29	An undergraduate experiment on the propagation of thermal waves. <i>American Journal of Physics</i> , 1998, 66, 528-533.	0.7	8
30	Flux retrieval optimization with a nonscanner along-track broadband radiometer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	8
31	Wireless Sensor Network for Soil Moisture Applications. , 2007, , .		8
32	Modelling net radiation at surface using α in situ α netpyrradiometer measurements with artificial neural networks. <i>Expert Systems With Applications</i> , 2011, , .	7.6	8
33	An improved perspective in the spatial representation of soil moisture: potential added value of SMOS disaggregated 1 α %km resolution α all weather α product. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 255-275.	4.9	8
34	Intercomparison of Soil Moisture Retrieved from GNSS-R and from Passive L-Band Radiometry at the Valencia Anchor Station. <i>Sensors</i> , 2019, 19, 1900.	3.8	8
35	Validation of the SMOS Level 1C Brightness Temperature and Level 2 Soil Moisture Data over the West and Southwest of Iran. <i>Remote Sensing</i> , 2020, 12, 2819.	4.0	8
36	The Future We Want: A Learning Experience to Promote SDGs in Higher Education from the United Nations and University of Valencia. <i>Sustainability</i> , 2021, 13, 8550.	3.2	8

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37	Radiative Flux Estimation from a Broadband Radiometer Using Synthetic Angular Models in the EarthCARE Mission Framework. Part I: Methodology. Journal of Applied Meteorology and Climatology, 2011, 50, 974-993.	1.5	6
38	Mapping Climate Zones of Iran Using Hybrid Interpolation Methods. Remote Sensing, 2022, 14, 2632.	4.0	6
39	A low-cost thermal diffusivity measuring apparatus. Journal of Physics E: Scientific Instruments, 1988, 21, 757-759.	0.7	3
40	Evaluating the impact of roughness in soil moisture and optical thickness retrievals over the VAS area. , 2014, , .		3
41	Validation of the Sentinel-3 Ocean and Land Colour Instrument (OLCI) Terrestrial Chlorophyll Index (OTCI): Synergetic Exploitation of the Sentinel-2 Missions. , 2018, , .		3
42	Drought Risk Evaluation in Iran by Using Geospatial Technologies. Remote Sensing, 2022, 14, 3096.	4.0	3
43	Improvement of broadband radiance to flux conversion by using the synergy between active and passive remote sensing instruments. , 2007, 6745, 246.		2
44	A comparative analysis of different spatial sampling schemes: Modelling of SSRB data. International Journal of Remote Sensing, 2008, 29, 1635-1647.	2.9	2
45	CAROLS campaigns 2009: First Results. , 2010, , .		2
46	Surface soil moisture retrieval using L-band SMAP SAR data and its validation. , 2016, , .		2
47	Calibrating the effective scattering albedo in the SMOS algorithm: Some first results. , 2016, , .		2
48	SCALES: SEVIRI and GERB CaL/Val area for large-scale field experiments. , 2004, , .		1
49	Comparison of top of the atmosphere GERB measured radiances with independent radiative transfer simulations obtained at the Valencia Anchor Station area. , 2005, , .		1
50	Radiative Flux Estimation from a Broadband Radiometer Using Synthetic Angular Models in the EarthCARE Mission Framework. Part II: Evaluation. Journal of Applied Meteorology and Climatology, 2012, 51, 1714-1731.	1.5	1
51	Potential of Automated Digital Hemispherical Photography and Wireless Quantum Sensors for Routine Canopy Monitoring and Satellite Product Validation. , 2021, , .		1
52	Modeling Influence of Soil Properties in Different Gradients of Soil Moisture: The Case of the Valencia Anchor Station Validation Site, Spain. Remote Sensing, 2021, 13, 5155.	4.0	1
53	The Evolution of the Celsius and Kelvin Temperature Scales and the State of the Art. Journal of Chemical Education, 1999, 76, 911.	2.3	0
54	A flux retrieval error behavior with CERES/TRMM data. , 2003, 4882, 1.		0

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55	Analysis of broadband surface BRDFs derived from TOA SW CERES measurements for surfaces classified by the IGBP land cover. International Journal of Remote Sensing, 2012, 33, 4374-4392.	2.9	0
56	Analyzing the impact of using the SRP (Simplified roughness parameterization) method on soil moisture retrieval over different regions of the globe. , 2015, , .		0
57	Intercomparison of soil moisture retrieved from GNSS-R and passive L-band radiometry at the Valencia Anchor Station. , 2016, , .		0
58	Characterization and Modelization of Surface Net Radiation through Neural Networks. , 2010, , 260-277.		0
59	Towards a long-term dataset of ELBARA-II measurements assisting SMOS level-3 land product and algorithm validation at the Valencia Anchor Station. Revista De Teledeteccion, 2015, , 55.	0.6	0