

# Maria-Josã© Escorihuela

## List of Publications by Year in descending order

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58  
papers

4,418  
citations

201674

27  
h-index

254184

43  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3524  
citing authors

#	ARTICLE	IF	CITATIONS
1	The SMOS Mission: New Tool for Monitoring Key Elements of the Global Water Cycle. Proceedings of the IEEE, 2010, 98, 666-687.	21.3	1,507
2	L-band Microwave Emission of the Biosphere (L-MEB) Model: Description and calibration against experimental data sets over crop fields. Remote Sensing of Environment, 2007, 107, 639-655.	11.0	602
3	Effective soil moisture sampling depth of L-band radiometry: A case study. Remote Sensing of Environment, 2010, 114, 995-1001.	11.0	221
4	Synergetic Use of Sentinel-1 and Sentinel-2 Data for Soil Moisture Mapping at 100 m Resolution. Sensors, 2017, 17, 1966.	3.8	199
5	SMOSREX: A long term field campaign experiment for soil moisture and land surface processes remote sensing. Remote Sensing of Environment, 2006, 102, 377-389.	11.0	167
6	Self-calibrated evaporation-based disaggregation of SMOS soil moisture: An evaluation study at 3 km and 100 m resolution in Catalunya, Spain. Remote Sensing of Environment, 2013, 130, 25-38.	11.0	163
7	Retrieving surface soil moisture at high spatio-temporal resolution from a synergy between Sentinel-1 radar and Landsat thermal data: A study case over bare soil. Remote Sensing of Environment, 2018, 211, 321-337.	11.0	118
8	Evaluating an Improved Parameterization of the Soil Emission in L-MEB. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1177-1189.	6.3	114
9	Irrigation Mapping Using Sentinel-1 Time Series at Field Scale. Remote Sensing, 2018, 10, 1495.	4.0	111
10	A Simple Model of the Bare Soil Microwave Emission at L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1978-1987.	6.3	108
11	Comparison of remote sensing and simulated soil moisture datasets in Mediterranean landscapes. Remote Sensing of Environment, 2016, 180, 99-114.	11.0	86
12	Impact of rain interception by vegetation and mulch on the L-band emission of natural grass. Remote Sensing of Environment, 2006, 101, 127-139.	11.0	82
13	Maize yield estimation in West Africa from crop process-induced combinations of multi-domain remote sensing indices. European Journal of Agronomy, 2019, 108, 11-26.	4.1	81
14	A new parameterization of the effective temperature for L band radiometry. Geophysical Research Letters, 2006, 33, .	4.0	67
15	Mapping Irrigated Areas Using Sentinel-1 Time Series in Catalonia, Spain. Remote Sensing, 2019, 11, 1836.	4.0	65
16	Soil moisture retrievals at L-band using a two-step inversion approach (COSMOS/NAFE'05 Experiment). Remote Sensing of Environment, 2009, 113, 1304-1312.	11.0	60
17	CryoSat-2 swath interferometric altimetry for mapping ice elevation and elevation change. Advances in Space Research, 2018, 62, 1226-1242.	2.6	55
18	Soil Moisture Retrievals From Biangular L-Band Passive Microwave Observations. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 277-281.	3.1	50

#	ARTICLE	IF	CITATIONS
19	Detecting and mapping irrigated areas in a Mediterranean environment by using remote sensing soil moisture and a land surface model. <i>Journal of Hydrology</i> , 2021, 596, 126129.	5.4	49
20	Exploiting High-Resolution Remote Sensing Soil Moisture to Estimate Irrigation Water Amounts over a Mediterranean Region. <i>Remote Sensing</i> , 2020, 12, 2593.	4.0	48
21	Evaluating the L-MEB Model From Long-Term Microwave Measurements Over a Rough Field, SMOSREX 2006. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 1458-1467.	6.3	37
22	Estimating the water budget components of irrigated crops: Combining the FAO-56 dual crop coefficient with surface temperature and vegetation index data. <i>Agricultural Water Management</i> , 2018, 208, 120-131.	5.6	37
23	Soil moisture from remote sensing to forecast desert locust presence. <i>Journal of Applied Ecology</i> , 2019, 56, 966-975.	4.0	36
24	Analysis of Retracker's™ Performances and Water Level Retrieval over the Ebro River Basin Using Sentinel-3. <i>Remote Sensing</i> , 2019, 11, 718.	4.0	31
25	The Roles of the S3MPC: Monitoring, Validation and Evolution of Sentinel-3 Altimetry Observations. <i>Remote Sensing</i> , 2020, 12, 1763.	4.0	31
26	Consistency between In Situ, Model-Derived and High-Resolution-Image-Based Soil Temperature Endmembers: Towards a Robust Data-Based Model for Multi-Resolution Monitoring of Crop Evapotranspiration. <i>Remote Sensing</i> , 2015, 7, 10444-10479.	4.0	28
27	Stepwise Disaggregation of SMAP Soil Moisture at 100 m Resolution Using Landsat-7/8 Data and a Varying Intermediate Resolution. <i>Remote Sensing</i> , 2019, 11, 1863.	4.0	28
28	Assessing the SMOS Soil Moisture Retrieval Parameters With High-Resolution NAFE'06 Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009, 6, 635-639.	3.1	25
29	Influence of Bound-Water Relaxation Frequency on Soil Moisture Measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 4067-4076.	6.3	23
30	SMOS based high resolution soil moisture estimates for desert locust preventive management. <i>Remote Sensing Applications: Society and Environment</i> , 2018, 11, 140-150.	1.5	22
31	Irrigation estimates from space: Implementation of different approaches to model the evapotranspiration contribution within a soil-moisture-based inversion algorithm. <i>Agricultural Water Management</i> , 2022, 265, 107537.	5.6	22
32	Extending the Spatio-Temporal Applicability of DISPATCH Soil Moisture Downscaling Algorithm: A Study Case Using SMAP, MODIS and Sentinel-3 Data. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	21
33	Disaggregation of SMOS Soil Moisture to 100 m Resolution Using MODIS Optical/Thermal and Sentinel-1 Radar Data: Evaluation over a Bare Soil Site in Morocco. <i>Remote Sensing</i> , 2017, 9, 1155.	4.0	17
34	SMOS-HR: A High Resolution L-Band Passive Radiometer for Earth Science and Applications. , 2019, , .		16
35	Double-scale analysis on the detectability of irrigation signals from remote sensing soil moisture over an area with complex topography in central Italy. <i>Advances in Water Resources</i> , 2022, 161, 104130.	3.8	14
36	Sub-Annual Calving Front Migration, Area Change and Calving Rates from Swath Mode CryoSat-2 Altimetry, on Filchner-Ronne Ice Shelf, Antarctica. <i>Remote Sensing</i> , 2019, 11, 2761.	4.0	11

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37	The CoSMOS L-band experiment in Southeast Australia. , 2007, , .		9
38	Effects of Dew on the Radiometric Signal of a Grass Field at L-Band. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 67-71.	3.1	9
39	High-Resolution SMAP-Derived Root-Zone Soil Moisture Using an Exponential Filter Model Calibrated per Land Cover Type. Remote Sensing, 2021, 13, 1112.	4.0	9
40	Disaggregation of SMAP Soil Moisture at 20 m Resolution: Validation and Sub-Field Scale Analysis. Remote Sensing, 2022, 14, 167.	4.0	6
41	Sunglint observations over land from ground and airborne Lâ€band radiometer data. Geophysical Research Letters, 2008, 35, .	4.0	5
42	Global maps of roughness parameters from L-band SMOS observations. , 2014, , .		4
43	Temporal Calibration of an Evaporation-Based Spatial Disaggregation Method of SMOS Soil Moisture Data. Remote Sensing, 2020, 12, 1671.	4.0	4
44	Estimates of surface soil moisture in prairies using L- band passive microwaves. , 2007, , .		3
45	Multisurface Retracker for Swath Processing of Interferometric Radar Altimetry. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1839-1843.	3.1	3
46	The Next Generation of L Band Radiometry: User'S Requirements and Technical Solutions. , 2020, , .		3
47	Multi-Source Hydrological Data Products to Monitor High Asian River Basins and Regional Water Security. Remote Sensing, 2021, 13, 5122.	4.0	3
48	Smos based High Resolution Soil Moisture Estimates for Desert Locust Preventive Management. , 2018, , .		2
49	SMOSCAT: Towards operational high resolution Soil Moisture with SMOS. , 2012, , .		1
50	SMOS calibration and validation over the Salar de Uyuni. , 2012, , .		1
51	Comparison of two methods for soil moisture mapping at 1KM resolution from Sentinel-1 and MODIS synergy. , 2017, , .		1
52	Irrigation Mapping Using Statistics of Sentinel-1 Time Series. , 2018, , .		1
53	A Calibration/Disaggregation Coupling Scheme for Retrieving Soil Moisture at High Spatio-Temporal Resolution: Synergy between SMAP Passive Microwave, MODIS/Landsat Optical/Thermal and Sentinel-1 Radar Data. Sensors, 2021, 21, 7406.	3.8	1
54	Characterization of snow pack over Pyrenees using remote sensed data for runoff modeling. Proceedings of SPIE, 2011, , .	0.8	0

#	ARTICLE	IF	CITATIONS
55	Correction to "Evaluating an improved parameterization of the soil emission in L-MEB" [Apr 11 1177-1189]. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3200-3200.	6.3	0
56	Evaporation-based disaggregation of surface soil moisture data: The dispatch method, the CATDS product and on-going research. , 2017, , .		0
57	Inland water level retrieval over western africa with radar altimeters. , 2017, , .		0
58	Soil Surface Moisture Estimation Using the Synergy S1/S2 Data. , 2018, , .		0