

# Anna Balenzano

## List of Publications by Year in descending order

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39  
papers

1,095  
citations

687363

13  
h-index

940533

16  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1046  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dense Temporal Series of C- and L-band SAR Data for Soil Moisture Retrieval Over Agricultural Crops. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 439-450.	4.9	212
2	A roadmap for high-resolution satellite soil moisture applications “confronting product characteristics with user requirements. Remote Sensing of Environment, 2021, 252, 112162.	11.0	138
3	Time-Series Retrieval of Soil Moisture Using CYGNSS. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4322-4331.	6.3	133
4	Crop Classification Using Short-Revisit Multitemporal SAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 423-431.	4.9	115
5	A Time-Series Approach to Estimating Soil Moisture From Vegetated Surfaces Using L-Band Radar Backscatter. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3186-3193.	6.3	60
6	On the use of temporal series of L-and X-band SAR data for soil moisture retrieval. Capitanata plain case study. European Journal of Remote Sensing, 2013, 46, 721-737.	3.5	54
7	C-Band SAR Data for Mapping Crops Dominated by Surface or Volume Scattering. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 384-388.	3.1	52
8	Sentinel-1 soil moisture at 1km resolution: a validation study. Remote Sensing of Environment, 2021, 263, 112554.	11.0	50
9	Optimization of Soil Hydraulic Model Parameters Using Synthetic Aperture Radar Data: An Integrated Multidisciplinary Approach. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 455-467.	6.3	38
10	Progress in the understanding of narrow directional microwave scattering of agricultural fields. Remote Sensing of Environment, 2011, 115, 2423-2433.	11.0	34
11	Inter-comparison of hydrological model simulations with time series of SAR-derived soil moisture maps. European Journal of Remote Sensing, 2013, 46, 739-757.	3.5	26
12	Sentinel-1 Sensitivity to Soil Moisture at High Incidence Angle and the Impact on Retrieval Over Seasonal Crops. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7308-7321.	6.3	21
13	SMOSAR algorithm for soil moisture retrieval using Sentinel-1 data. , 2012, , .		17
14	A ground network for SAR-derived soil moisture product calibration, validation and exploitation in Southern Italy. , 2014, , .		16
15	Sentinel-1 & Sentinel-2 for SOIL Moisture Retrieval at Field Scale. , 2018, , .		15
16	Assimilation of COSMO-SkyMed-derived LAI maps into the AQUATER crop growth simulation model. Capitanata (Southern Italy) case study. European Journal of Remote Sensing, 2013, 46, 891-908.	3.5	14
17	On the use of multi-temporal series of COSMO-SkyMed data for LANDcover classification and surface parameter retrieval over agricultural sites. , 2011, , .		12
18	Time series of COSMO-SkyMed data for landcover classification and surface parameter retrieval over agricultural sites. , 2012, , .		10

#	ARTICLE	IF	CITATIONS
19	Sentinel-1 & Sentinel-2 Data for Soil Tillage Change Detection. , 2018, , .		9
20	Sentinel-1 for wheat mapping and soil moisture retrieval. , 2015, , .		8
21	Land cover classification by using multi-temporal COSMO-SkyMed data. , 2011, , .		6
22	Sentinel-1 high resolution soil moisture. , 2017, , .		6
23	GNSS-R Time-Series Soil Moisture Retrievals from Vegetated Surfaces. , 2018, , .		6
24	Dataset of Sentinel-1 surface soil moisture time series at 1 km resolution over Southern Italy. Data in Brief, 2021, 38, 107345.	1.0	6
25	COSMO-SkyMed multi-temporal data for land cover classification and soil moisture retrieval over an agricultural site in Southern Australia. , 2012, , .		5
26	Sentinel-1 SAR data for mapping agricultural crops not dominated by volume scattering. , 2012, , .		5
27	Soil moisture retrieval from dense temporal series of C-band SAR data over agricultural sites. , 2011, , .		4
28	Coherent and Incoherent Change Detection for Soil Moisture Retrieval From Sentinel-1 Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	4
29	A Comparison of Leaf Area Index Maps Derived from Multi-Sensor Optical Data Acquired over Agricultural Areas. Italian Journal of Agronomy, 2010, 5, 167.	1.0	3
30	Retrieval of wheat biomass from multitemporal dual polarised SAR observations. , 2015, , .		3
31	Soil moisture maps from time series of PALSAR-1 scansar data over Australia. , 2013, , .		2
32	Sentinel-1 Sensitivity to Soil Moisture at High Incidence Angle and its Impact on Retrieval. , 2018, , .		2
33	Sensitivity of Sentinel-1 Interferometric Coherence to Crop Structure and Soil Moisture. , 2019, , .		2
34	Field Scale Soil Moisture From Time Series Of Sentinel-1 & Sentinel-2. , 2020, , .		2
35	An experimental and theoretical study on the sensitivity of cross-polarized backscatter to soil moisture. , 2012, , .		1
36	A study of soil moisture estimation from multi-temporal L-band radar observations of vegetated surfaces. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
37	Cross-Comparison of Three SAR Soil Moisture Retrieval Algorithms Using Synthetic and Experimental Data. , 2018, , .		1
38	A European Test Site for Ground Data Measurement and Earth Observation Services Validation. , 2020, , .		1
39	Operational Soil Moisture Mapping at C-Band and Perspectives for L-Band. , 2020, , .		1