

Giacomo Fontanelli

List of Publications by Year in descending order

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35
papers

772
citations

759233

12
h-index

794594

19
g-index

35
all docs

35
docs citations

35
times ranked

1086
citing authors

#	ARTICLE	IF	CITATIONS
1	Airborne GNSS-R Polarimetric Measurements for Soil Moisture and Above-Ground Biomass Estimation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1522-1532.	4.9	148
2	Application of artificial neural networks for the soil moisture retrieval from active and passive microwave spaceborne sensors. International Journal of Applied Earth Observation and Geoinformation, 2016, 48, 61-73.	2.8	110
3	The potential of multifrequency SAR images for estimating forest biomass in Mediterranean areas. Remote Sensing of Environment, 2017, 200, 63-73.	11.0	83
4	Sensitivity analysis of X-band SAR to wheat and barley leaf area index in the Merguellil Basin. Remote Sensing Letters, 2013, 4, 1107-1116.	1.4	65
5	In-Season Mapping of Crop Type with Optical and X-Band SAR Data: A Classification Tree Approach Using Synoptic Seasonal Features. Remote Sensing, 2015, 7, 12859-12886.	4.0	61
6	Comparison of Machine Learning Methods Applied to SAR Images for Forest Classification in Mediterranean Areas. Remote Sensing, 2020, 12, 369.	4.0	39
7	Remote Sensing of Forest Biomass Using GNSS Reflectometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2351-2368.	4.9	35
8	The Intercomparison of X-Band SAR Images from COSMO-SkyMed and TerraSAR-X Satellites: Case Studies. Remote Sensing, 2013, 5, 2928-2942.	4.0	34
9	Lowland Rice Mapping in SĂ©dhiou Region (Senegal) Using Sentinel 1 and Sentinel 2 Data and Random Forest. Remote Sensing, 2020, 12, 3403.	4.0	27
10	The Sensitivity of Cosmo-SkyMed Backscatter to Agricultural Crop Type and Vegetation Parameters. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2856-2868.	4.9	26
11	Monitoring of Alpine snow using satellite radiometers and artificial neural networks. Remote Sensing of Environment, 2014, 144, 179-186.	11.0	18
12	Agricultural crop mapping using optical and SAR multi-temporal seasonal data: A case study in Lombardy region, Italy. , 2014, , .		17
13	In-season early mapping of rice area and flooding dynamics from optical and SAR satellite data. European Journal of Remote Sensing, 2019, 52, 206-220.	3.5	16
14	Biomass retrieval based on genetic algorithm feature selection and support vector regression in Alpine grassland using ground-based hyperspectral and Sentinel-1 SAR data. European Journal of Remote Sensing, 2021, 54, 209-225.	3.5	14
15	Effect of forests on the retrieval of snow parameters from backscatter measurements. European Journal of Remote Sensing, 2012, 45, 121-132.	3.5	12
16	Development Of Algorithms For The Estimation Of Hydrological Parameters Combining Cosmo-Skymed And Sentinel Time Series With In Situ Measurements. , 2020, , .		11
17	Deriving Wheat Crop Productivity Indicators Using Sentinel-1 Time Series. Remote Sensing, 2020, 12, 2385.	4.0	10
18	HydroCosmo: The Monitoring of Hydrological Parameters on Agricultural Areas by using Cosmo-SkyMed Images. European Journal of Remote Sensing, 2013, 46, 875-889.	3.5	8

#	ARTICLE	IF	CITATIONS
19	The retrieval and monitoring of vegetation parameters from COSMO-SkyMed images. , 2012, , .		6
20	A prototype ann based algorithm for the soil moisture retrieval from l- band in view of the incoming SMAP mission. , 2014, , .		6
21	Mapping Woody Volume of Mediterranean Forests by Using SAR and Machine Learning: A Case Study in Central Italy. Remote Sensing, 2021, 13, 809.	4.0	6
22	Grass: AN experiment on the capability of airborne GNSS-R sensors in sensing soil moisture and vegetation biomass. , 2013, , .		5
23	A merged SMAP â€“ Sentinel-1 soil moisture product using Artificial Neural Networks: a case study in Central Italy. , 2019, , .		3
24	DeterminaciÃ³n de la humedad de suelo mediante regresiÃ³n lineal mÃºltiple con datos TerraSAR-X. Revista De Teledeteccion, 2016, , 73.	0.6	3
25	Potentials of X-band active and passive microwave sensors in monitoring vegetation biomass. , 2011, , .		2
26	Integration of multi-seasonal Landsat 8 and TerraSAR-X data for urban mapping: An assessment. , 2015, , .		2
27	Evaluation of vegetation effect on the retrieval of snow parameters from backscattering measurements: A contribution to CoReH2O mission. , 2010, , .		1
28	The potential of multi-temporal Cosmo-SkyMed SAR images in monitoring soil and vegetation. , 2011, , .		1
29	GNSS-R sensor sensitivity to soil moisture and vegetation biomass and comparison with SAR data performance. , 2013, , .		1
30	Rice monitoring using SAR and optical data in Northern Italy. , 2015, , .		1
31	Assessing Interactions Between Crop Biophysical Parameters and X-Band Backscattering Using Empirical Data and Model Sensitivity Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	1
32	Monitoring of snow cover on Italian Alps using AMSR-E and Artificial Neural Networks. , 2012, , .		0
33	Electromagnetic simulation and validation of backscattering from boreal forest in the C-Ku frequency range. , 2013, , .		0
34	Neural Network Integration of SMAP and Sentinel-1 for Estimating Soil Moisture at High Spatial Resolution. , 2021, , .		0
35	Airborne multi-frequency microwave radiometric measurements in synergy with SAR data for the retrieval of soil moisture. , 2020, , .		0