

Stefania Bonafoni

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Assimilation of Satellite-Derived Soil Moisture and Brightness Temperature in Land Surface Models: A Review. <i>Remote Sensing</i> , 2022, 14, 770.	1.8	5
2	Correcting Scaling Effect in Downscaling Surface Temperature at High Resolutions With a Multiple Regional Correction Approach. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	0
3	A Response of Snow Cover to the Climate in the Northwest Himalaya (NWH) Using Satellite Products. <i>Remote Sensing</i> , 2021, 13, 655.	1.8	12
4	Performance Evaluation of Long NDVI Timeseries from AVHRR, MODIS and Landsat Sensors over Landslide-Prone Locations in Qinghai-Tibetan Plateau. <i>Remote Sensing</i> , 2021, 13, 3172.	1.8	8
5	Reducing Scaling Effect on Downscaled Land Surface Temperature Maps in Heterogenous Urban Environments. <i>Remote Sensing</i> , 2021, 13, 5044.	1.8	9
6	Comments on the published article: "Capability of Sentinel-2 data for estimating maximum evapotranspiration and irrigation requirements for tomato crop in central Italy" by S. Vanino et al., <i>Remote Sensing of Environment</i> , 215(2018), 452-470. <i>Remote Sensing of Environment</i> , 2020, 237, 111523.	4.6	1
7	Sensitivity Analysis and Validation of Daytime and Nighttime Land Surface Temperature Retrievals from Landsat 8 Using Different Algorithms and Emissivity Models. <i>Remote Sensing</i> , 2020, 12, 2776.	1.8	36
8	Albedo Retrieval From Sentinel-2 by New Narrow-to-Broadband Conversion Coefficients. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1618-1622.	1.4	28
9	Noncontact Measurement of River Surface Velocity and Discharge Estimation With a Low-Cost Doppler Radar Sensor. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 5195-5207.	2.7	27
10	Land Surface Temperature Retrieval from Landsat 5, 7, and 8 over Rural Areas: Assessment of Different Retrieval Algorithms and Emissivity Models and Toolbox Implementation. <i>Remote Sensing</i> , 2020, 12, 294.	1.8	215
11	Radio occultation and ground-based GNSS products for observing, understanding and predicting extreme events: A review. <i>Atmospheric Research</i> , 2019, 230, 104624.	1.8	41
12	Spatiotemporal Analysis of MODIS NDVI in the Semif-Arid Region of Kurdistan (Iran). <i>Remote Sensing</i> , 2019, 11, 1723.	1.8	19
13	The Impact of the Land Cover Dynamics on Surface Urban Heat Island Variations in Semi-Arid Cities: A Case Study in Ahmedabad City, India, Using Multi-Sensor/Source Data. <i>Sensors</i> , 2019, 19, 3701.	2.1	58
14	K/Ka-Band Very High Data-Rate Receivers: A Viable Solution for Future Moon Exploration Missions. <i>Electronics (Switzerland)</i> , 2019, 8, 349.	1.8	4
15	Feeding the World With Microwaves: How Remote and Wireless Sensing Can Help Precision Agriculture. <i>IEEE Microwave Magazine</i> , 2019, 20, 72-86.	0.7	17
16	Satellite Remote Sensing of Surface Urban Heat Islands: Progress, Challenges, and Perspectives. <i>Remote Sensing</i> , 2019, 11, 48.	1.8	464
17	Fractal Rhythms and Trends of Rainfall Data from Pastaza Province, Ecuador and Veneto, Italy. , 2019, , 241-244.		0
18	Remote sensing of the urban heat island effect in a highly populated urban agglomeration area in East China. <i>Science of the Total Environment</i> , 2018, 628-629, 415-429.	3.9	158

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19	Land Surface Temperature and Urban Density: Multiyear Modeling and Relationship Analysis Using MODIS and Landsat Data. <i>Remote Sensing</i> , 2018, 10, 1471.	1.8	44
20	Urban Heat Island Analysis over the Land Use Zoning Plan of Bangkok by Means of Landsat 8 Imagery. <i>Remote Sensing</i> , 2018, 10, 440.	1.8	67
21	Satellite Images and Gaussian Parameterization for an Extensive Analysis of Urban Heat Islands in Thailand. <i>Remote Sensing</i> , 2018, 10, 665.	1.8	24
22	An Efficient Gain Estimation in the Calibration of Noise-Adding Total Power Radiometers for Radiometric Resolution Improvement. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 5289-5298.	2.7	4
23	Tropospheric dry delay for microwaves using a model based on surface measurements on a global scale. <i>IET Microwaves, Antennas and Propagation</i> , 2018, 12, 9-14.	0.7	2
24	Optimization of the biomechanical design of plate-loaded strength training machines: The free-weight lifting experience. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2017, 231, 14-20.	0.4	2
25	Sustainable strategies for smart cities: Analysis of the town development effect on surface urban heat island through remote sensing methodologies. <i>Sustainable Cities and Society</i> , 2017, 29, 211-218.	5.1	63
26	Albedo and surface temperature relation in urban areas: Analysis with different sensors. , 2017, , .		8
27	Downscaling of Land Surface Temperature Using Airborne High-Resolution Data: A Case Study on Aprilia, Italy. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 107-111.	1.4	15
28	Albedo Retrieval From Multispectral Landsat 8 Observation in Urban Environment: Algorithm Validation by in situ Measurements. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 4504-4511.	2.3	26
29	A Novel Sensor Based on a Single-Pixel Microwave Radiometer for Warm Object Counting: Concept Validation and IoT Perspectives. <i>Sensors</i> , 2017, 17, 1388.	2.1	5
30	A 24-GHz Front-End Integrated on a Multilayer Cellulose-Based Substrate for Doppler Radar Sensors. <i>Sensors</i> , 2017, 17, 2090.	2.1	12
31	Remote Sensing Techniques for Urban Heating Analysis: A Case Study of Sustainable Construction at District Level. <i>Sustainability</i> , 2017, 9, 1308.	1.6	10
32	Microwave Radiometers for Fire Detection in Trains: Theory and Feasibility Study. <i>Sensors</i> , 2016, 16, 906.	2.1	12
33	Downscaling Landsat Land Surface Temperature over the urban area of Florence. <i>European Journal of Remote Sensing</i> , 2016, 49, 553-569.	1.7	46
34	Downscaling of Landsat and MODIS Land Surface Temperature Over the Heterogeneous Urban Area of Milan. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 2019-2027.	2.3	78
35	The usefulness of the Global Navigation Satellite Systems (GNSS) in the analysis of precipitation events. <i>Atmospheric Research</i> , 2016, 167, 15-23.	1.8	25
36	A Stable Gaussian Fitting Procedure for the Parameterization of Remote Sensed Thermal Images. <i>Algorithms</i> , 2015, 8, 82-91.	1.2	18

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37	On the possibility of sensing an early stage fire in moving vehicles by microwave radiometry. Journal of Electromagnetic Waves and Applications, 2015, 29, 1875-1886.	1.0	2
38	Downscaling of the land surface temperature over urban area using Landsat data. , 2015, , .		1
39	Spectral index utility for summer urban heating analysis. Journal of Applied Remote Sensing, 2015, 9, 096030.	0.6	11
40	Spaceborne detection of roof and impervious surface albedo: Potentialities and comparison with airborne thermography measurements. Solar Energy, 2015, 113, 281-294.	2.9	32
41	Comparison between surface and canopy layer urban heat island using MODIS data. , 2015, , .		5
42	Modeling and Sensing the Vertical Structure of the Atmospheric Path Delay by Microwave Radiometry to Correct SAR Interferograms. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1324-1335.	2.7	6
43	Spatial and temporal trends of the surface and air heat island over Milan using MODIS data. Remote Sensing of Environment, 2014, 150, 163-171.	4.6	146
44	Assessment of water vapor retrievals from a GPS receiver network. GPS Solutions, 2013, 17, 475-484.	2.2	22
45	On the accuracy of integrated water vapor observations and the potential for mitigating electromagnetic path delay error in InSAR. Atmospheric Measurement Techniques, 2012, 5, 1015-1030.	1.2	26
46	Satellite air temperature estimation for monitoring the canopy layer heat island of Milan. Remote Sensing of Environment, 2012, 127, 130-138.	4.6	85
47	Neural Networks for Arctic Atmosphere Sounding From Radio Occultation Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4846-4855.	2.7	12
48	MICROWAVE RADIOMETRY IMAGING FOR FOREST FIRE DETECTION: A SIMULATION STUDY. Progress in Electromagnetics Research, 2011, 112, 77-92.	1.6	17
49	Satellite-Based Retrieval of Precipitable Water Vapor Over Land by Using a Neural Network Approach. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3236-3248.	2.7	20
50	Synergic use of EO, NWP and ground based measurements for the mitigation of vapour artefacts in SAR interferometry. , 2011, , .		3
51	Satellite and Ground-Based Sensors for the Urban Heat Island Analysis in the City of Rome. Remote Sensing, 2010, 2, 1400-1415.	1.8	93
52	Neural-network retrieval of integrated precipitable water vapor over land from satellite microwave radiometer. , 2010, , .		4
53	Neural network for the satellite retrieval of precipitable water vapor over land. , 2010, , .		2
54	Fire Detection by Microwave Radiometric Sensors: Modeling a Scenario in the Presence of Obstacles. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 314-324.	2.7	18

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55	Atmospheric Profiling in the Inter-Tropical Ocean Area Based on Neural Network Approach Using GPS Radio Occultations. <i>The Open Atmospheric Science Journal</i> , 2010, 4, 202-209.	0.5	6
56	Comparison of Different Neural Network Approaches for the Tropospheric Profiling over the Inter-tropical lands Using GPS Radio Occultation Data. <i>Algorithms</i> , 2009, 2, 31-45.	1.2	8
57	Comparison of fractal dimension oscillations and trends of rainfall data from Pastaza Province, Ecuador and Veneto, Italy. <i>Atmospheric Research</i> , 2009, 93, 673-679.	1.8	18
58	Atmospheric water vapor effects on spaceborne interferometric SAR imaging: Comparison with ground-based measurements and meteorological model simulations at different scales. , 2009, , .		7
59	Analysis and improvements of cloud models for propagation studies. <i>Radio Science</i> , 2009, 44, .	0.8	41
60	Validation of near infrared satellite based algorithms to retrieve atmospheric water vapour content over land. <i>European Journal of Remote Sensing</i> , 2009, , 37-44.	0.2	3
61	Analysis of aerosol optical depth retrieved by MODIS and MERIS and comparison with photometer data. <i>European Journal of Remote Sensing</i> , 2009, , 5-10.	0.2	0
62	Estimation of tropospheric profiles using COSMIC GPS radio occultation data with neural networks. <i>European Journal of Remote Sensing</i> , 2009, , 23-38.	0.2	1
63	A Low-Cost Microwave Radiometer for the Detection of Fire in Forest Environments. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 2632-2643.	2.7	30
64	Development of a neural network for precipitable water vapor retrieval over ocean and land. , 2008, , .		1
65	Fire detection by low-cost microwave radiometric sensors. , 2008, , .		3
66	Inter-Wall Fire Detection by Low-Cost Microwave Radiometric Sensors. , 2008, , .		5
67	Neural networks for tropospheric profiling from GPS-LEO radio occultation. , 2007, , .		0
68	Cloud Model Studies for the Simulation of Brightness Temperatures. , 2006, , .		1
69	Cloud liquid models for propagation studies: Evaluation and refinements. , 2006, , .		2
70	Development of a Low-Cost Microwave Radiometer for the Early Detection of Fire in Forest Environments. , 2006, , .		9
71	Comparison of MM5 integrated water vapor with microwave radiometer, GPS, and radiosonde measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 1050-1058.	2.7	28
72	Mapping the atmospheric water vapor by integrating microwave radiometer and GPS measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 1657-1665.	2.7	32

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73	Retrieving atmospheric temperature profiles by microwave radiometry using a priori information on atmospheric spatial-temporal evolution. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 1896-1905.	2.7	7
74	Atmospheric water vapor retrieval by means of both a GPS network and a microwave radiometer during an experimental campaign in Cagliari, Italy, in 1999. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 2436-2443.	2.7	36
75	Assessment of precipitable water vapour by use of a local GPS network and microwave ground-based radiometer. , 2001, , .		0
76	Monitoring of atmospheric water around precipitation events using a scanning ground-based microwave radiometer. , 0, , .		0
77	The role of a priori information in designing retrieval algorithms for microwave radiometric profiling of the atmosphere. , 0, , .		0
78	Experimental campaign for the assessment of atmospheric water vapour retrieval by means of a GPS network. , 0, , .		1
79	Mapping of precipitable water vapour by integrating measurements of ground-based GPS receivers and satellite-based microwave radiometers. , 0, , .		1
80	Monitoring atmospheric water vapour using GPS measurements during precipitation events. , 0, , .		2
81	Passive calibration of the backscattering coefficient of the ENVISAT RA-2: evaluation of radiative models for sea and land. , 0, , .		0
82	Validation of MERIS water vapour in the central Italy by concurrent measurements of microwave radiometers and GPS receivers. , 0, , .		2
83	Integration of digital elevation data scanning 3D and interferometric SAR systems. , 0, , .		0
84	Analysis and Improvement of Cloud Models for Brightness Temperature Simulations. , 0, , .		3
85	GNSS Signals: A Powerful Source for Atmosphere and Earth's Surface Monitoring. , 0, , .		4