

Stefania Bonafoni

List of Publications by Year in descending order

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85
papers

2,323
citations

257101

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docs citations

87
times ranked

2005
citing authors

#	ARTICLE	IF	CITATIONS
1	Satellite Remote Sensing of Surface Urban Heat Islands: Progress, Challenges, and Perspectives. <i>Remote Sensing</i> , 2019, 11, 48.	1.8	464
2	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
3	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
4	Spatial and temporal trends of the surface and air heat island over Milan using MODIS data. <i>Remote Sensing of Environment</i> , 2014, 150, 163-171.	4.6	146
5	Satellite and Ground-Based Sensors for the Urban Heat Island Analysis in the City of Rome. <i>Remote Sensing</i> , 2010, 2, 1400-1415.	1.8	93
6	Satellite air temperature estimation for monitoring the canopy layer heat island of Milan. <i>Remote Sensing of Environment</i> , 2012, 127, 130-138.	4.6	85
7	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
8	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
9	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
10	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
11	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
12	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
13	Analysis and improvements of cloud models for propagation studies. <i>Radio Science</i> , 2009, 44, .	0.8	41
14	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
15	Atmospheric water vapor retrieval by means of both a GPS network and a microwave radiometer during an experimental campaign in Cagliari, Italy, in 1999. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 2436-2443.	2.7	36
16	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
17	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
18	Spaceborne detection of roof and impervious surface albedo: Potentialities and comparison with airborne thermography measurements. <i>Solar Energy</i> , 2015, 113, 281-294.	2.9	32

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19	A Low-Cost Microwave Radiometer for the Detection of Fire in Forest Environments. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2632-2643.	2.7	30
20	Comparison of MM5 integrated water vapor with microwave radiometer, GPS, and radiosonde measurements. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1050-1058.	2.7	28
21	Albedo Retrieval From Sentinel-2 by New Narrow-to-Broadband Conversion Coefficients. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1618-1622.	1.4	28
22	Noncontact Measurement of River Surface Velocity and Discharge Estimation With a Low-Cost Doppler Radar Sensor. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5195-5207.	2.7	27
23	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
24	Albedo Retrieval From Multispectral Landsat 8 Observation in Urban Environment: Algorithm Validation by in situ Measurements. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4504-4511.	2.3	26
25	The usefulness of the Global Navigation Satellite Systems (GNSS) in the analysis of precipitation events. Atmospheric Research, 2016, 167, 15-23.	1.8	25
26	Satellite Images and Gaussian Parameterization for an Extensive Analysis of Urban Heat Islands in Thailand. Remote Sensing, 2018, 10, 665.	1.8	24
27	Assessment of water vapor retrievals from a GPS receiver network. GPS Solutions, 2013, 17, 475-484.	2.2	22
28	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
29	Spatiotemporal Analysis of MODIS NDVI in the Semif-Arid Region of Kurdistan (Iran). Remote Sensing, 2019, 11, 1723.	1.8	19
30	Comparison of fractal dimension oscillations and trends of rainfall data from Pastaza Province, Ecuador and Veneto, Italy. Atmospheric Research, 2009, 93, 673-679.	1.8	18
31	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
32	A Stable Gaussian Fitting Procedure for the Parameterization of Remote Sensed Thermal Images. Algorithms, 2015, 8, 82-91.	1.2	18
33	MICROWAVE RADIOMETRY IMAGING FOR FOREST FIRE DETECTION: A SIMULATION STUDY. Progress in Electromagnetics Research, 2011, 112, 77-92.	1.6	17
34	Feeding the World With Microwaves: How Remote and Wireless Sensing Can Help Precision Agriculture. IEEE Microwave Magazine, 2019, 20, 72-86.	0.7	17
35	Downscaling of Land Surface Temperature Using Airborne High-Resolution Data: A Case Study on Aprilia, Italy. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 107-111.	1.4	15
36	Neural Networks for Arctic Atmosphere Sounding From Radio Occultation Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4846-4855.	2.7	12

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37	Microwave Radiometers for Fire Detection in Trains: Theory and Feasibility Study. <i>Sensors</i> , 2016, 16, 906.	2.1	12
38	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
39	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
40	Spectral index utility for summer urban heating analysis. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 096030.	0.6	11
41	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
42	Development of a Low-Cost Microwave Radiometer for the Early Detection of Fire in Forest Environments. , 2006, , .		9
43	Reducing Scaling Effect on Downscaled Land Surface Temperature Maps in Heterogenous Urban Environments. <i>Remote Sensing</i> , 2021, 13, 5044.	1.8	9
44	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
45	Albedo and surface temperature relation in urban areas: Analysis with different sensors. , 2017, , .		8
46	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
47	Retrieving atmospheric temperature profiles by microwave radiometry using a priori information on atmospheric spatial-temporal evolution. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 1896-1905.	2.7	7
48	Atmospheric water vapor effects on spaceborne interferometric SAR imaging: Comparison with ground-based measurements and meteorological model simulations at different scales. , 2009, , .		7
49	Modeling and Sensing the Vertical Structure of the Atmospheric Path Delay by Microwave Radiometry to Correct SAR Interferograms. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 1324-1335.	2.7	6
50	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
51	Inter-Wall Fire Detection by Low-Cost Microwave Radiometric Sensors. , 2008, , .		5
52	Comparison between surface and canopy layer urban heat island using MODIS data. , 2015, , .		5
53	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
54	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

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55	Neural-network retrieval of integrated precipitable water vapor over land from satellite microwave radiometer. , 2010, , .		4
56	GNSS Signals: A Powerful Source for Atmosphere and Earth's Surface Monitoring. , 0, , .		4
57	An Efficient Gain Estimation in the Calibration of Noise-Adding Total Power Radiometers for Radiometric Resolution Improvement. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5289-5298.	2.7	4
58	K/Ka-Band Very High Data-Rate Receivers: A Viable Solution for Future Moon Exploration Missions. Electronics (Switzerland), 2019, 8, 349.	1.8	4
59	Analysis and Improvement of Cloud Models for Brightness Temperature Simulations. , 0, , .		3
60	Fire detection by low-cost microwave radiometric sensors. , 2008, , .		3
61	Synergic use of EO, NWP and ground based measurements for the mitigation of vapour artefacts in SAR interferometry. , 2011, , .		3
62	Validation of near infrared satellite based algorithms to retrieve atmospheric water vapour content over land. European Journal of Remote Sensing, 2009, , 37-44.	0.2	3
63	Monitoring atmospheric water vapour using GPS measurements during precipitation events. , 0, , .		2
64	Validation of MERIS water vapour in the central Italy by concurrent measurements of microwave radiometers and GPS receivers. , 0, , .		2
65	Cloud liquid models for propagation studies: Evaluation and refinements. , 2006, , .		2
66	Neural network for the satellite retrieval of precipitable water vapor over land. , 2010, , .		2
67	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
68	Optimization of the biomechanical design of plate-loaded strength training machines: The free-weight lifting experience. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2017, 231, 14-20.	0.4	2
69	Tropospheric dry delay for microwaves using a model based on surface measurements on a global scale. IET Microwaves, Antennas and Propagation, 2018, 12, 9-14.	0.7	2
70	Experimental campaign for the assessment of atmospheric water vapour retrieval by means of a GPS network. , 0, , .		1
71	Mapping of precipitable water vapour by integrating measurements of ground-based GPS receivers and satellite-based microwave radiometers. , 0, , .		1
72	Cloud Model Studies for the Simulation of Brightness Temperatures. , 2006, , .		1

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73	Development of a neural network for precipitable water vapor retrieval over ocean and land. , 2008, , .		1
74	Downscaling of the land surface temperature over urban area using Landsat data. , 2015, , .		1
75	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., Remote Sensing of Environment, 215(2018), 452-470. Remote Sensing of Environment, 2020, 237, 111523.	4.6	1
76	Estimation of tropospheric profiles using COSMIC GPS radio occultation data with neural networks. European Journal of Remote Sensing, 2009, , 23-38.	0.2	1
77	Monitoring of atmospheric water around precipitation events using a scanning ground-based microwave radiometer. , 0, , .		0
78	The role of a priori information in designing retrieval algorithms for microwave radiometric profiling of the atmosphere. , 0, , .		0
79	Passive calibration of the backscattering coefficient of the ENVISAT RA-2: evaluation of radiative models for sea and land. , 0, , .		0
80	Integration of digital elevation data scanning 3D and interferometric SAR systems. , 0, , .		0
81	Neural networks for tropospheric profiling from GPS-LEO radio occultation. , 2007, , .		0
82	Assessment of precipitable water vapour by use of a local GPS network and microwave ground-based radiometer. , 2001, , .		0
83	Analysis of aerosol optical depth retrieved by MODIS and MERIS and comparison with photometer data. European Journal of Remote Sensing, 2009, , 5-10.	0.2	0
84	Fractal Rhythms and Trends of Rainfall Data from Pastaza Province, Ecuador and Veneto, Italy. , 2019, , 241-244.		0
85	Correcting Scaling Effect in Downscaling Surface Temperature at High Resolutions With a Multiple Regional Correction Approach. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	0