

Laurent Barthes

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

796
citations

687220

13
h-index

610775

24
g-index

24
all docs

24
docs citations

24
times ranked

1058
citing authors

#	ARTICLE	IF	CITATIONS
1	SIRTA, a ground-based atmospheric observatory for cloud and aerosol research. <i>Annales Geophysicae</i> , 2005, 23, 253-275.	0.6	240
2	DEVEX-disdrometer evaluation experiment: Basic results and implications for hydrologic studies. <i>Advances in Water Resources</i> , 2006, 29, 311-325.	1.7	99
3	BASTA: A 95-GHz FMCW Doppler Radar for Cloud and Fog Studies. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 1023-1038.	0.5	66
4	Rainfall measurement from the opportunistic use of an Earth-space link in the Ku band. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2181-2193.	1.2	52
5	The Effect of Rain-No Rain Intermittency on the Estimation of the Universal Multifractals Model Parameters. <i>Journal of Hydrometeorology</i> , 2009, 10, 493-506.	0.7	44
6	Multifractal analysis of African monsoon rain fields, taking into account the zero rain-rate problem. <i>Journal of Hydrology</i> , 2010, 389, 111-120.	2.3	41
7	Estimation of Gamma Raindrop Size Distribution Parameters: Statistical Fluctuations and Estimation Errors. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1572-1584.	0.5	38
8	A dual-beam spectroprecipitometer concept. <i>Journal of Hydrology</i> , 2006, 328, 110-120.	2.3	28
9	Estimation of Finescale Rainfall Fields Using Broadcast TV Satellite Links and a 4DVAR Assimilation Method. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 1709-1728.	0.5	28
10	Separation of multiple echoes using a high-resolution spectral analysis for SuperDARN HF radars. <i>Radio Science</i> , 1998, 33, 1005-1017.	0.8	27
11	Theoretical and empirical scale dependency of Z-R relationships: Evidence, impacts, and correction. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7435-7449.	1.2	20
12	Vertical evolution of raindrop size distribution: Impact on the shape of the DSD. <i>Atmospheric Research</i> , 2013, 119, 13-22.	1.8	16
13	Short-term prediction of rain attenuation level and volatility in Earth-to-Satellite links at EHF band. <i>Nonlinear Processes in Geophysics</i> , 2008, 15, 631-643.	0.6	15
14	A passive scalar-like model for rain applicable up to storm scale. <i>Atmospheric Research</i> , 2010, 98, 140-147.	1.8	13
15	Data-driven clustering of rain events: microphysics information derived from macro-scale observations. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1557-1574.	1.2	11
16	Neural network model for atmospheric attenuation retrieval between 20 and 50 GHz by means of dual-frequency microwave radiometers. <i>Radio Science</i> , 2003, 38, n/a-n/a.	0.8	10
17	Simulation of yearly rainfall time series at microscale resolution with actual properties: Intermittency, scale invariance, and rainfall distribution. <i>Water Resources Research</i> , 2015, 51, 7417-7435.	1.7	10
18	Iterative multiscale dynamic time warping (IMs-DTW): a tool for rainfall time series comparison. <i>International Journal of Data Science and Analytics</i> , 2020, 10, 65-79.	2.4	9

#	ARTICLE	IF	CITATIONS
19	Combining signal processing and machine learning techniques for real time measurement of raindrops. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 1717-1724.	2.4	7
20	A neural network model for the separation of atmospheric effects on attenuation: Application to frequency scaling. Radio Science, 2006, 41, n/a-n/a.	0.8	7
21	CURIE: a low power X-band, low atmospheric Boundary Layer Doppler radar. Meteorologische Zeitschrift, 2009, 18, 267-276.	0.5	6
22	Using Deep Learning for Restoration of Precipitation Echoes in Radar Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	4
23	Toward resolving small-scale structures in ionospheric convection from SuperDARN. Radio Science, 1999, 34, 1165-1176.	0.8	3
24	4-D-VAR assimilation of disdrometer data and radar spectral reflectivities for raindrop size distribution and vertical wind retrievals. Atmospheric Measurement Techniques, 2016, 9, 3145-3163.	1.2	2