Laurent Barthes

List of Publications by Year
in descending order

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	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
2	Iterative multiscale dynamic time warping (IMs-DTW): a tool for rainfall time series comparison. International Journal of Data Science and Analytics, 2020, 10, 65-79.	2.4	9
3	Data-driven clustering of rain events: microphysics information derived from macro-scale observations. Atmospheric Measurement Techniques, 2017, 10, 1557-1574.	1.2	11
4	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
5	BASTA: A 95-GHz FMCW Doppler Radar for Cloud and Fog Studies. Journal of Atmospheric and Oceanic Technology, 2016, 33, 1023-1038.	0.5	66
6	Simulation of yearly rainfall time series at microscale resolution with actual properties: Intermittency, scale invariance, and rainfall distribution. Water Resources Research, 2015, 51, 7417-7435.	1.7	10
7	Estimation of Finescale Rainfall Fields Using Broadcast TV Satellite Links and a 4DVAR Assimilation Method. Journal of Atmospheric and Oceanic Technology, 2015, 32, 1709-1728.	0.5	28
8	Vertical evolution of raindrop size distribution: Impact on the shape of the DSD. Atmospheric Research, 2013, 119, 13-22.	1.8	16
9	Rainfall measurement from the opportunistic use of an Earth–space link in the Ku band. Atmospheric Measurement Techniques, 2013, 6, 2181-2193.	1.2	52
10	Theoretical and empirical scale dependency of Z–R relationships: Evidence, impacts, and correction. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7435-7449.	1.2	20
11	Multifractal analysis of African monsoon rain fields, taking into account the zero rain-rate problem. Journal of Hydrology, 2010, 389, 111-120.	2.3	41
12	A passive scalar-like model for rain applicable up to storm scale. Atmospheric Research, 2010, 98, 140-147.	1.8	13
13	The Effect of Rain–No Rain Intermittency on the Estimation of the Universal Multifractals Model Parameters. Journal of Hydrometeorology, 2009, 10, 493-506.	0.7	44
14	Estimation of Gamma Raindrop Size Distribution Parameters: Statistical Fluctuations and Estimation Errors. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1572-1584.	0.5	38
15	CURIE: a low power X-band, low atmospheric Boundary Layer Doppler radar. Meteorologische Zeitschrift, 2009, 18, 267-276.	0.5	6
16	Short-term prediction of rain attenuation level and volatility in Earth-to-Satellite links at EHF band. Nonlinear Processes in Geophysics, 2008, 15, 631-643.	0.6	15
17	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
18	A dual-beam spectropluviometer concept. Journal of Hydrology, 2006, 328, 110-120.	2.3	28

#	Article	IF	Citations
19	DEVEX-disdrometer evaluation experiment: Basic results and implications for hydrologic studies. Advances in Water Resources, 2006, 29, 311-325.	1.7	99
20	SIRTA, a ground-based atmospheric observatory for cloud and aerosol research. Annales Geophysicae, 2005, 23, 253-275.	0.6	240
21	Neural network model for atmospheric attenuation retrieval between 20 and 50 GHz by means of dual-frequency microwave radiometers. Radio Science, 2003, 38, n/a-n/a.	0.8	10
22	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
23	Toward resolving small-scale structures in ionospheric convection from SuperDARN. Radio Science, 1999, 34, 1165-1176.	0.8	3
24	Separation of multiple echoes using a high-resolution spectral analysis for SuperDARN HF radars. Radio Science, 1998, 33, 1005-1017.	0.8	27