Merhala Thurai

List of Publications by Year
in descending order

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33 papers	480 citations	1040056 9 h-index	794594 19 g-index
36 all docs	36 docs citations	36 times ranked	342 citing authors

#	Article	IF	Citations
1	Drop Axis Ratios from a 2D Video Disdrometer. Journal of Atmospheric and Oceanic Technology, 2005, 22, 966-978.	1.3	142
2	Toward Completing the Raindrop Size Spectrum: Case Studies Involving 2D-Video Disdrometer, Droplet Spectrometer, and Polarimetric Radar Measurements. Journal of Applied Meteorology and Climatology, 2017, 56, 877-896.	1.5	67
3	Application of the Generalized Gamma Model to Represent the Full Rain Drop Size Distribution Spectra. Journal of Applied Meteorology and Climatology, 2018, 57, 1197-1210.	1.5	39
4	Raindrop fall velocities from an optical array probe and 2-D video disdrometer. Atmospheric Measurement Techniques, 2018, 11, 1377-1384.	3.1	36
5	Accurate Characterization of Winter Precipitation Using Multi-Angle Snowflake Camera, Visual Hull, Advanced Scattering Methods and Polarimetric Radar. Atmosphere, 2016, 7, 81.	2.3	31
6	Initial Results of a New Composite-Weighted Algorithm for Dual-Polarized X-Band Rainfall Estimation. Journal of Hydrometeorology, 2017, 18, 1081-1100.	1.9	24
7	Measurements and Modeling of the Full Rain Drop Size Distribution. Atmosphere, 2019, 10, 39.	2.3	24
8	Reconstructing the Drizzle Mode of the Raindrop Size Distribution Using Double-Moment Normalization. Journal of Applied Meteorology and Climatology, 2019, 58, 145-164.	1.5	22
9	Hurricane Dorian Outer Rain Band Observations and 1D Particle Model Simulations: A Case Study. Atmosphere, 2020, 11, 879.	2.3	11
10	Drop Size Distribution Measurements in Outer Rainbands of Hurricane Dorian at the NASA Wallops Precipitation-Research Facility. Atmosphere, 2020, 11, 578.	2.3	11
11	Scattering Calculations at C-Band for Asymmetric Raindrops Reconstructed from 2D Video Disdrometer Measurements. Journal of Atmospheric and Oceanic Technology, 2017, 34, 765-776.	1.3	8
12	Testing the Drop-Size Distribution-Based Separation of Stratiform and Convective Rain Using Radar and Disdrometer Data from a Mid-Latitude Coastal Region. Atmosphere, 2021, 12, 392.	2.3	8
13	Scattering Calculations for Asymmetric Raindrops during a Line Convection Event: Comparison with Radar Measurements. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1169-1180.	1.3	7
14	Measurements of Rainfall Rate, Drop Size Distribution, and Variability at Middle and Higher Latitudes: Application to the Combined DPR-GMI Algorithm. Remote Sensing, 2021, 13, 2412.	4.0	7
15	Raindrop shapes and fall velocities in â€œturbulent timesâ€• Advances in Science and Research, 0, 16, 95-101.	1.0	7
16	Measurement and characterization of winter precipitation at MASCRAD Snow Field Site. , 2015, , .		6
17	Analysis of Raindrop Shapes and Scattering Calculations: The Outer Rain Bands of Tropical Depression Nate. Atmosphere, 2020, 11, 114.	2.3	6
18	Retrieval of lower-order moments of the drop size distribution using CSU-CHILL X-band polarimetric radar: a case study. Atmospheric Measurement Techniques, 2020, 13, 4727-4750.	3.1	5

#	Article	IF	Citations
19	MoM-SIE scattering models of snow and ice hydrometeors based on 3D shape reconstructions from MASC images. , 2017, , .		3
20	Rain Drop Shapes and Scattering Calculations: A Case Study using 2D Video Disdrometer Measurements and Polarimetric Radar Observations at S-band During Hurricane Dorian Rain-Bands. , 2021, , .		3
21	Separation of Stratiform and Convective Rain Types Using Data from an S-Band Polarimetric Radar: A Case Study Comparing Two Different Methods. Environmental Sciences Proceedings, 2021, 8, 1.	0.3	3
22	Electromagnetic scattering by oscillating rain drops of asymmetric shapes. , 2014, , .		2
23	Snow precipitation measurement and analysis during MASCRAD Winter observations. , 2016, , .		1
24	Microphysical characteristics analysis of three heavy snowfall events from the MASCRAD campaign in Greeley, Colorado, USA. , 2016, , .		1
25	Accurate characterization of rain drop size distribution using meteorological particle spectrometer and 2D video disdrometer for propagation and remote sensing applications. , 2017, , .		1
26	MASCRAD events: Observations and analyses of cases with contrasting hydrometeor forms. , 2017, , .		1
27	Improved Precipitation Typing Using POSS Spectral Modal Analysis. Journal of Atmospheric and Oceanic Technology, 2021, 38, 537-554.	1.3	1
28	Retrieving Rain Drop Size Distribution Moments from GPM Dual-Frequency Precipitation Radar. Remote Sensing, 2021, 13, 4690.	4.0	1
29	Drop-by-Drop Radar Cross Section Calculations for Sand C-band Weather Radar Frequencies. , 2022, , .		1
30	Measurement and analysis of rain precipitation at MASCRAD Instrumentation Site in Colorado. , 2016, , .		0
31	Measurement and Modeling of the Precipitation Particle Size Distribution. Atmosphere, 2021, 12, 819.	2.3	0
32	Variability of raindrop size distribution as characterized by the generalized gamma formulation. , 2022, , 473-501.		0
33	Testing the Drop-Size Distribution Based Separation of Stratiform and Convective Rain Using Radar and Disdrometer Data from a Midlatitude Coastal Region. Environmental Sciences Proceedings, 2020, 4, .	0.3	0