

# Frederic Tridon

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

619  
citations

567281

15  
h-index

677142

22  
g-index

27  
all docs

27  
docs citations

27  
times ranked

634  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the relationship between water vapour field evolution and the life cycle of precipitation systems. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 204-223.	2.7	69
2	Dual-frequency radar Doppler spectral retrieval of rain drop size distributions and entangled dynamics variables. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5585-5601.	3.3	50
3	First observations of triple-frequency radar Doppler spectra in snowfall: Interpretation and applications. Geophysical Research Letters, 2016, 43, 2225-2233.	4.0	48
4	The Microphysics of Stratiform Precipitation During OLYMPEX: Compatibility Between Triple-frequency Radar and Airborne In Situ Observations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8764-8792.	3.3	46
5	Multiple scattering in observations of the GPM dual-frequency precipitation radar: Evidence and impact on retrievals. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4090-4101.	3.3	45
6	Hail-Detection Algorithm for the GPM Core Observatory Satellite Sensors. Journal of Applied Meteorology and Climatology, 2017, 56, 1939-1957.	1.5	44
7	Aliasing in Micro Rain Radar data due to strong vertical winds. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	42
8	Disentangling Mie and attenuation effects in rain using a $K_{\text{a}}$ dual-wavelength Doppler spectral ratio technique. Geophysical Research Letters, 2013, 40, 5548-5552.	4.0	34
9	Signal Postprocessing and Reflectivity Calibration of the Atmospheric Radiation Measurement Program 915-MHz Wind Profilers. Journal of Atmospheric and Oceanic Technology, 2013, 30, 1038-1054.	1.3	25
10	Rain retrieval from dual-frequency radar Doppler spectra: validation and potential for a midlatitude precipitating case study. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 1364-1380.	2.7	25
11	Using a multiwavelength suite of microwave instruments to investigate the microphysical structure of deep convective cores. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9356-9381.	3.3	24
12	Precipitation on the lee side of the Vosges Mountains: Multi-instrumental study of one case from the COPS campaign. Meteorologische Zeitschrift, 2013, 22, 413-432.	1.0	22
13	Multiple-Scattering-Induced "Ghost Echoes" in GPM DPR Observations of a Tornadic Supercell. Journal of Applied Meteorology and Climatology, 2016, 55, 1653-1666.	1.5	20
14	Estimating total attenuation using Rayleigh targets at cloud top: applications in multilayer and mixed-phase clouds observed by ground-based multifrequency radars. Atmospheric Measurement Techniques, 2020, 13, 5065-5085.	3.1	19
15	The influence of aerosol particle number and hygroscopicity on the evolution of convective cloud systems and their precipitation: A numerical study based on the COPS observations on 12 August 2007. Atmospheric Research, 2010, 98, 40-56.	4.1	16
16	Evaporation in action sensed by multiwavelength Doppler radars. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9379-9390.	3.3	16
17	On the Realism of the Rain Microphysics Representation of a Squall Line in the WRF Model. Part I: Evaluation with Multifrequency Cloud Radar Doppler Spectra Observations. Monthly Weather Review, 2019, 147, 2787-2810.	1.4	14
18	On the Realism of the Rain Microphysics Representation of a Squall Line in the WRF Model. Part II: Sensitivity Studies on the Rain Drop Size Distributions. Monthly Weather Review, 2019, 147, 2811-2825.	1.4	14

#	ARTICLE	IF	CITATIONS
19	Simultaneous X-band and K-band study of precipitation to derive specific Zâ€“R relationships. Atmospheric Research, 2009, 94, 596-605.	4.1	13
20	Triple-Frequency Radar Retrievals. Advances in Global Change Research, 2020, , 211-229.	1.6	10
21	Small scale topography influence on the formation of three convective systems observed during COPS over the Vosges Mountains. Meteorologische Zeitschrift, 2013, 22, 395-411.	1.0	9
22	Precipitation and microphysical studies with a low cost high resolution X-band radar: an innovative project prospective. Advances in Geosciences, 0, 20, 25-32.	12.0	8
23	La campagne Cops : genÃ“se et cycle de vie de la convection en rÃ©gion montagneuse. La MÃ©tÃ©orologie, 2009, 8, 32.	0.5	6
24	Validation of the Global Precipitation Measurement Mission Core Observatory Over Great Britain and Ireland. , 2018, , .		0
25	Evaluation of Two Cloud-Resolving Models Using Bin or Bulk Microphysics Representation for the HyMeX-IOP7a Heavy Precipitation Event. Atmosphere, 2020, 11, 1177.	2.3	0