

# Joseph C Hardin

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

724  
citations

687363

13  
h-index

610901

24  
g-index

45  
all docs

45  
docs citations

45  
times ranked

870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and Evolution of Mesoscale Convective Systems: Sensitivity to Cloud Microphysics in Convection-Permitting Simulations Over the United States. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1470-1494.	3.8	145
2	Spatiotemporal Characteristics and Large-Scale Environments of Mesoscale Convective Systems East of the Rocky Mountains. <i>Journal of Climate</i> , 2019, 32, 7303-7328.	3.2	91
3	A Global High-Resolution Mesoscale Convective System Database Using Satellite-Derived Cloud Tops, Surface Precipitation, and Tracking. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034202.	3.3	88
4	Contrasting Spring and Summer Large-Scale Environments Associated with Mesoscale Convective Systems over the U.S. Great Plains. <i>Journal of Climate</i> , 2019, 32, 6749-6767.	3.2	64
5	Audio quality assessment using the mean structural similarity measure. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008, , .	1.8	35
6	Updraft and Downdraft Core Size and Intensity as Revealed by Radar Wind Profilers: MCS Observations and Idealized Model Comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031774.	3.3	34
7	Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E619-E641.	3.3	33
8	Utilizing a Storm-Generating Hotspot to Study Convective Cloud Transitions: The CACTI Experiment. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1597-E1620.	3.3	30
9	The ARM Cloud Radar Simulator for Global Climate Models: Bridging Field Data and Climate Models. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 21-26.	3.3	24
10	Midlatitude Oceanic Cloud and Precipitation Properties as Sampled by the ARM Eastern North Atlantic Observatory. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4741-4760.	3.3	23
11	The Green Ocean: precipitation insights from the GoAmazon2014/5 experiment. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9121-9145.	4.9	21
12	Clutter mitigation, multiple peaks, and high-order spectral moments in 35%GHz vertically pointing radar velocity spectra. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4963-4980.	3.1	19
13	The Detection of Mesoscale Convective Systems by the GPM Ku-Band Spaceborne Radar. <i>Journal of the Meteorological Society of Japan</i> , 2019, 97, 1059-1073.	1.8	17
14	Using an Explainable Machine Learning Approach to Characterize Earth System Model Errors: Application of SHAP Analysis to Modeling Lightning Flash Occurrence. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	15
15	Assessing the Quality of Audio Containing Temporally Varying Distortions. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011, 19, 711-720.	3.2	14
16	An Analysis of Coordinated Observations from NOAA's Ronald H. Brown Ship and G-IV Aircraft in a Landfalling Atmospheric River over the North Pacific during CalWater-2015. <i>Monthly Weather Review</i> , 2017, 145, 3647-3669.	1.4	13
17	Physically regularized machine learning emulators of aerosol activation. <i>Geoscientific Model Development</i> , 2021, 14, 3067-3077.	3.6	10
18	Growth of Mesoscale Convective Systems in Observations and a Seasonal Convection-Permitting Simulation over Argentina. <i>Monthly Weather Review</i> , 2021, 149, 3469-3490.	1.4	9

#	ARTICLE	IF	CITATIONS
19	Inpainting radar missing data regions with deep learning. Atmospheric Measurement Techniques, 2021, 14, 7729-7747.	3.1	6
20	Deep Convection Initiation, Growth, and Environments in the Complex Terrain of Central Argentina during CACTI. Monthly Weather Review, 2022, 150, 1135-1155.	1.4	6
21	Objective analysis of temporally varying audio quality metrics. , 2008, , .		5
22	Dual-frequency dual-polarized Doppler radar (D3R) system for GPM ground validation: Update and recent field observations. , 2012, , .		5
23	Raindrop Size Spectrum in Deep Convective Regions of the Americas. Atmosphere, 2021, 12, 979.	2.3	5
24	Identifying insects, clouds, and precipitation using vertically pointing polarimetric radar Doppler velocity spectra. Atmospheric Measurement Techniques, 2021, 14, 4425-4444.	3.1	3
25	An extended radar relative calibration adjustment (eRCA) technique for higher-frequency radars and rangeâ€‘height indicator (RHI) scans. Atmospheric Measurement Techniques, 2020, 13, 3147-3166.	3.1	3
26	Earth System Model Aerosolâ€‘Cloud Diagnostics (ESMAC Diags) package, version 1: assessing E3SM aerosol predictions using aircraft, ship, and surface measurements. Geoscientific Model Development, 2022, 15, 4055-4076.	3.6	3
27	A Temporally Varying Objective Audio Quality Metric. , 2009, , .		1
28	Early investigations into subjective audio quality assessment using brainwave responses. , 2011, , .		0
29	A cross frequency performance comparison of dual polarization attenuation correction algorithms at X and S band. , 2012, , .		0
30	Calibration of ground radars during the Mid latitude Continental Convective Cloud Experiment (MC3E). , 2013, , .		0