

Scott M Collis

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,093
citations

430754

18
h-index

454834

30
g-index

30
all docs

30
docs citations

30
times ranked

1235
citing authors

#	ARTICLE	IF	CITATIONS
1	The Python ARM Radar Toolkit (Py-ART), a Library for Working with Weather Radar Data in the Python Programming Language. <i>Journal of Open Research Software</i> , 2016, 4, 25.	2.7	221
2	The Midlatitude Continental Convective Clouds Experiment (MC3E). <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1667-1686.	1.7	131
3	Evaluation of cloud-resolving and limited area model intercomparison simulations using TWP-ICE observations: 1. Deep convective updraft properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,891.	1.2	100
4	A Summary of Convective-Core Vertical Velocity Properties Using ARM UHF Wind Profilers in Oklahoma. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 2278-2295.	0.6	72
5	Improving representation of convective transport for scale-aware parameterization: 1. Convection and cloud properties simulated with spectral bin and bulk microphysics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 3485-3509.	1.2	57
6	Statistics of Storm Updraft Velocities from TWP-ICE Including Verification with Profiling Measurements. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 1909-1922.	0.6	49
7	An Integrated Approach to Weather Radar Calibration and Monitoring Using Ground Clutter and Satellite Comparisons. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 17-39.	0.5	44
8	The Emergence of Open-Source Software for the Weather Radar Community. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 117-128.	1.7	41
9	On Polarimetric Radar Signatures of Deep Convection for Model Evaluation: Columns of Specific Differential Phase Observed during MC3E*. <i>Monthly Weather Review</i> , 2016, 144, 737-758.	0.5	38
10	Measurements of ion energy distributions by Doppler shift spectroscopy in an inertial-electrostatic confinement device. <i>Physics of Plasmas</i> , 2001, 8, 1299.	0.7	36
11	Precipitation Estimation from the ARM Distributed Radar Network during the MC3E Campaign. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 2130-2147.	0.6	35
12	Finite-Time Lyapunov Exponents and Lagrangian Coherent Structures in Uncertain Unsteady Flows. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2016, 22, 1672-1682.	2.9	34
13	The Queensland Cloud Seeding Research Program. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 75-90.	1.7	29
14	Vertical air motion retrievals in deep convective clouds using the ARM scanning radar network in Oklahoma during MC3E. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2785-2806.	1.2	28
15	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.	1.7	24
16	Analysis of a Destructive Wind Storm on 16 November 2008 in Brisbane, Australia. <i>Monthly Weather Review</i> , 2014, 142, 3038-3060.	0.5	23
17	Radar-Derived Statistics of Convective Storms in Southeast Queensland. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 1985-2008.	0.6	19
18	Use of polarimetric radar measurements to constrain simulated convective cell evolution: a pilot study with Lagrangian tracking. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2979-3000.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Fluctuations and stability of plasmas in the H-1NF heliac. Nuclear Fusion, 2004, 44, 279-286.	1.6	17
20	Correction of Dual-PRF Doppler Velocity Outliers in the Presence of Aliasing. Journal of Atmospheric and Oceanic Technology, 2017, 34, 1529-1543.	0.5	17
21	The Effect of Radial Velocity Gridding Artifacts on Variationally Retrieved Vertical Velocities. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1239-1246.	0.5	13
22	A 17 year climatology of the macrophysical properties of convection in Darwin. Atmospheric Chemistry and Physics, 2018, 18, 17687-17704.	1.9	9
23	Imaging photomultiplier array with integrated amplifiers and high-speed USB interface. Review of Scientific Instruments, 2008, 79, 10F506.	0.6	6
24	PyDDA: A Pythonic Direct Data Assimilation Framework for Wind Retrievals. Journal of Open Research Software, 2020, 8, 20.	2.7	6
25	UNRAVEL: A Robust Modular Velocity Dealiasing Technique for Doppler Radar. Journal of Atmospheric and Oceanic Technology, 2020, 37, 741-758.	0.5	5
26	The development of rainfall retrievals from radar at Darwin. Atmospheric Measurement Techniques, 2021, 14, 53-69.	1.2	5
27	The Need for Spectrum and the Impact on Weather Observations. Bulletin of the American Meteorological Society, 2021, 102, E1402-E1407.	1.7	5
28	Validation of collisional radiative modelling of emission line ratios for helium beam plasma diagnostic. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 340-346.	1.1	4
29	The Earth Model Column Collaboratory (EMCC) v1.1: an open-source ground-based lidar and radar instrument simulator and subcolumn generator for large-scale models. Geoscientific Model Development, 2022, 15, 901-927.	1.3	4
30	A supersonic gas injection system for fuelling and probing fusion plasmas. Plasma Sources Science and Technology, 2006, 15, 797-804.	1.3	2