

Benjamin J Shipway

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5945890/publications.pdf>

Version: 2024-02-01

38
papers

2,071
citations

331670

21
h-index

361022

35
g-index

41
all docs

41
docs citations

41
times ranked

2513
citing authors

#	ARTICLE	IF	CITATIONS
1	Is a more physical representation of aerosol activation needed for simulations of fog?. Atmospheric Chemistry and Physics, 2021, 21, 7271-7292.	4.9	10
2	Progress towards accelerating the unified model on hybrid multi-core systems. , 2021, , .		0
3	A compatible finiteâ€element discretisation for the moist compressible Euler equations. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3187-3205.	2.7	9
4	Cloud feedbacks in extratropical cyclones: insight from long-term satellite data and high-resolution global simulations. Atmospheric Chemistry and Physics, 2019, 19, 1147-1172.	4.9	12
5	A mixed finiteâ€element, finiteâ€volume, semiâ€implicit discretization for atmospheric dynamics: Cartesian geometry. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 2835-2853.	2.7	26
6	Strong control of Southern Ocean cloud reflectivity by ice-nucleating particles. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2687-2692.	7.1	156
7	In situ data analytics for highly scalable cloud modelling on Cray machines. Concurrency Computation Practice and Experience, 2018, 30, e4331.	2.2	14
8	Future Community Efforts in Understanding and Modeling Atmospheric Processes. Bulletin of the American Meteorological Society, 2018, 99, ES159-ES162.	3.3	1
9	Aerosolâ€cloud interactions in mixed-phase convective clouds â€ Part 2: Meteorological ensemble. Atmospheric Chemistry and Physics, 2018, 18, 10593-10613.	4.9	13
10	Cloud Microphysical Factors Affecting Simulations of Deep Convection During the Presummer Rainy Season in Southern China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,477.	3.3	21
11	A model intercomparison of CCN-limited tenuous clouds in the high Arctic. Atmospheric Chemistry and Physics, 2018, 18, 11041-11071.	4.9	54
12	Challenges for Cloud Modeling in the Context of Aerosolâ€Cloudâ€Precipitation Interactions. Bulletin of the American Meteorological Society, 2017, 98, 1749-1755.	3.3	6
13	ZLF (Zero Lateral Flux): a simple mass conservation method for semiâ€Lagrangianâ€based limitedâ€area models. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2578-2584.	2.7	15
14	The relative importance of macrophysical and cloud albedo changes for aerosol-induced radiative effects in closed-cell stratocumulus: insight from the modelling of a case study. Atmospheric Chemistry and Physics, 2017, 17, 5155-5183.	4.9	51
15	A parametrization of subgrid orographic rain enhancement via the seederâ€feeder effect. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 132-142.	2.7	4
16	How sensitive are aerosolâ€precipitation interactions to the warm rain representation?. Journal of Advances in Modeling Earth Systems, 2015, 7, 987-1004.	3.8	41
17	Precipitation sensitivity to autoconversion rate in a numerical weatherâ€prediction model. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2032-2044.	2.7	9
18	Revisiting Twomey's approximation for peak supersaturation. Atmospheric Chemistry and Physics, 2015, 15, 3803-3814.	4.9	6

#	ARTICLE	IF	CITATIONS
19	A directive based hybrid met office NERC cloud model. , 2015, , .		6
20	Processes Controlling Tropical Tropopause Temperature and Stratospheric Water Vapor in Climate Models. Journal of Climate, 2015, 28, 6516-6535.	3.2	47
21	A method to represent subgrid-scale updraft velocity in kilometer-scale models: Implication for aerosol activation. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4149-4173.	3.3	19
22	Evaluation of cloud-resolving and limited area model intercomparison simulations using TWP-ICE observations: 1. Deep convective updraft properties. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,891.	3.3	100
23	Mixed-phase clouds in a turbulent environment. Part 1: Large-eddy simulation experiments. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 855-869.	2.7	31
24	Intercomparison of large-eddy simulations of Arctic mixed-phase clouds: Importance of ice size distribution assumptions. Journal of Advances in Modeling Earth Systems, 2014, 6, 223-248.	3.8	114
25	Evaluation of cloud-resolving and limited area model intercomparison simulations using TWP-ICE observations: 2. Precipitation microphysics. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,919.	3.3	47
26	Ice in Clouds Experiment "Layer Clouds. Part II: Testing Characteristics of Heterogeneous Ice Formation in Lee Wave Clouds. Journals of the Atmospheric Sciences, 2012, 69, 1066-1079.	1.7	61
27	A comparison of TWP-ICE observational data with cloud-resolving model results. Journal of Geophysical Research, 2012, 117, .	3.3	108
28	Correction to "Evaluation of cloud-resolving model intercomparison simulations using TWP-ICE observations: Precipitation and cloud structure". Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	0
29	Diagnosis of systematic differences between multiple parameterizations of warm rain microphysics using a kinematic framework. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 2196-2211.	2.7	100
30	Evaluation of cloud-resolving model intercomparison simulations using TWP-ICE observations: Precipitation and cloud structure. Journal of Geophysical Research, 2011, 116, .	3.3	90
31	Controls on precipitation and cloudiness in simulations of trade-wind cumulus as observed during RICO. Journal of Advances in Modeling Earth Systems, 2011, 3, n/a-n/a.	3.8	249
32	Intercomparison of cloud model simulations of Arctic mixed-phase boundary layer clouds observed during SHEBA/FIRE-ACE. Journal of Advances in Modeling Earth Systems, 2011, 3, n/a-n/a.	3.8	90
33	Correction to "Droplet nucleation: Physically-based parameterizations and comparative evaluation". Journal of Advances in Modeling Earth Systems, 2011, 3, .	3.8	1
34	Droplet nucleation: Physically-based parameterizations and comparative evaluation. Journal of Advances in Modeling Earth Systems, 2011, 3, .	3.8	123
35	Analytical estimation of cloud droplet nucleation based on an underlying aerosol population. Atmospheric Research, 2010, 96, 344-355.	4.1	45
36	Intercomparison of model simulations of mixed-phase clouds observed during the ARM Mixed-Phase Arctic Cloud Experiment. II: Multilayer cloud. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1003-1019.	2.7	84

#	ARTICLE	IF	CITATIONS
37	Intercomparison of model simulations of mixedâ€phase clouds observed during the ARM Mixedâ€Phase Arctic Cloud Experiment. I: singleâ€layer cloud. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 979-1002.	2.7	224
38	A comparison of cloud-resolving model simulations of trade wind cumulus with aircraft observations taken during RICO. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 781-794.	2.7	84