

Andreas Bott

List of Publications by Year in descending order

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30
papers

2,038
citations

516710

16
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

1396
citing authors

#	ARTICLE	IF	CITATIONS
1	Fog Research: A Review of Past Achievements and Future Perspectives. Pure and Applied Geophysics, 2007, 164, 1121-1159.	1.9	487
2	A Positive Definite Advection Scheme Obtained by Nonlinear Renormalization of the Advective Fluxes. Monthly Weather Review, 1989, 117, 1006-1016.	1.4	469
3	A Flux Method for the Numerical Solution of the Stochastic Collection Equation. Journals of the Atmospheric Sciences, 1998, 55, 2284-2293.	1.7	144
4	A Radiation Fog Model with a Detailed Treatment of the Interaction between Radiative Transfer and Fog Microphysics. Journals of the Atmospheric Sciences, 1990, 47, 2153-2166.	1.7	126
5	PAFOG—a new efficient forecast model of radiation fog and low-level stratiform clouds. Atmospheric Research, 2002, 64, 191-203.	4.1	93
6	A Flux Method for the Numerical Solution of the Stochastic Collection Equation: Extension to Two-Dimensional Particle Distributions. Journals of the Atmospheric Sciences, 2000, 57, 284-294.	1.7	83
7	A review on ice fog measurements and modeling. Atmospheric Research, 2015, 151, 2-19.	4.1	68
8	Multiphase chemistry in a microphysical radiation fog model—A numerical study. Atmospheric Environment Part A General Topics, 1993, 27, 503-522.	1.3	65
9	On the influence of the physico-chemical properties of aerosols on the life cycle of radiation fogs. Boundary-Layer Meteorology, 1991, 56, 1-31.	2.3	60
10	Fog Research: A Review of Past Achievements and Future Perspectives. , 2007, , 1121-1159.		47
11	Interaction of radiation fog with tall vegetation. Atmospheric Environment, 1999, 33, 1333-1346.	4.1	45
12	A numerical model of the cloud-topped planetary boundary-layer: Radiation, turbulence and spectral microphysics in marine stratus. Quarterly Journal of the Royal Meteorological Society, 1996, 122, 635-667.	2.7	44
13	Three-dimensional fog forecasting in complex terrain. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 2189-2202.	2.7	44
14	Fog Prediction for Road Traffic Safety in a Coastal Desert Region. Boundary-Layer Meteorology, 2012, 145, 485-506.	2.3	41
15	Fog Prediction for Road Traffic Safety in a Coastal Desert Region: Improvement of Nowcasting Skills by the Machine-Learning Approach. Boundary-Layer Meteorology, 2015, 157, 501-516.	2.3	37
16	On the cloud processing of aerosol particles: An entraining air-parcel model with two-dimensional spectral cloud microphysics and a new formulation of the collection kernel. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 1-18.	2.7	28
17	A numerical model of the cloud-topped planetary boundary-layer: Impact of aerosol particles on the radiative forcing of stratiform clouds. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 631-656.	2.7	25
18	Demistify: a large-eddy simulation (LES) and single-column model (SCM) intercomparison of radiation fog. Atmospheric Chemistry and Physics, 2022, 22, 319-333.	4.9	14

#	ARTICLE	IF	CITATIONS
19	Theoretical considerations on the mass and energy consistent treatment of precipitation in cloudy atmospheres. <i>Atmospheric Research</i> , 2008, 89, 262-269.	4.1	12
20	A new method for the solution of the stochastic collection equation in cloud models with spectral aerosol and cloud drop microphysics. <i>Atmospheric Research</i> , 2001, 59-60, 361-372.	4.1	6
21	Integration of Local Observations into the One Dimensional Fog Model PAFOG. <i>Pure and Applied Geophysics</i> , 2012, 169, 881-893.	1.9	6
22	The effects of different radiation parametrizations on cloud evolution. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 1985-2007.	2.7	5
23	Comparison of a spectral microphysics and a two-moment cloud scheme: Numerical simulation of a radiation fog event. <i>Atmospheric Research</i> , 2021, 262, 105787.	4.1	4
24	Quantifying the effects of a low-ozone event and shallow stratocumulus clouds on ultraviolet erythemal radiation exposure. <i>International Journal of Biometeorology</i> , 2019, 63, 359-369.	3.0	3
25	Comparison of a Spectral Microphysics and a Two-Moment Cloud Scheme: Numerical Simulations of the Cloud-Topped Marine Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2020, 175, 153-178.	2.3	3
26	A nonlocal three-dimensional turbulence parameterization (NLT3D) for numerical weather prediction models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 117-140.	2.7	3
27	Title is missing!. <i>Water, Air and Soil Pollution</i> , 2001, 1, 373-380.	0.8	2
28	A numerical model of the cloud-topped planetary boundary-layer: Impact of aerosol particles on the radiative forcing of stratiform clouds. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 631-656.	2.7	2
29	The effects of different radiation parametrizations on cloud evolution. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 1985-2007.	2.7	1
30	The Impact of Landform Structure on the Formation of Fog – Numerical Simulations with COSMO-FOG. <i>Lecture Notes in Earth Sciences</i> , 2009, , 87-99.	0.5	0