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List of Publications by Year in descending order

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76
papers

8,767
citations

109321

35
h-index

88630

70
g-index

107
all docs

107
docs citations

107
times ranked

9700
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Satellite Observations to Evaluate Model Microphysical Representation of Arctic Mixed-Phase Clouds. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8
2	Springtime Stratospheric Volcanic Aerosol Impact on Midlatitude Cirrus Clouds. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
3	The Ability of the ICE-T Microphysics Scheme in HARMONIE-AROME to Predict Aircraft Icing. <i>Weather and Forecasting</i> , 2022, 37, 205-217.	1.4	1
4	Observational Constraints on Southern Ocean Cloud-Phase Feedback. <i>Journal of Climate</i> , 2022, 35, 5087-5102.	3.2	4
5	Precipitation efficiency constraint on climate change. <i>Nature Climate Change</i> , 2022, 12, 642-648.	18.8	18
6	Exploring the Cloud Top Phase Partitioning in Different Cloud Types Using Active and Passive Satellite Sensors. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089863.	4.0	10
7	Observationally Constrained Cloud Phase Unmasks Orbitally Driven Climate Feedbacks. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091873.	4.0	0
8	Climate sensitivity indices and their relation with projected temperature change in CMIP6 models. <i>Environmental Research Letters</i> , 2021, 16, 064095.	5.2	6
9	Energy Budget Constraints on the Time History of Aerosol Forcing and Climate Sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033622.	3.3	25
10	Post-flight analysis of detailed size distributions of warm cloud droplets, as determined in situ by cloud and aerosol spectrometers. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6777-6794.	3.1	0
11	The contribution of drifting snow to cloud properties and the atmospheric radiative budget over Antarctica. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094967.	4.0	3
12	Prediction of Cloud Fractional Cover Using Machine Learning. <i>Big Data and Cognitive Computing</i> , 2021, 5, 62.	4.7	1
13	Econometric estimates of Earth's transient climate sensitivity. <i>Journal of Econometrics</i> , 2020, 214, 6-32.	6.5	16
14	Bounding Global Aerosol Radiative Forcing of Climate Change. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000660.	23.0	424
15	Global Radiative Impacts of Black Carbon Acting as Ice Nucleating Particles. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089056.	4.0	18
16	Equilibrium climate sensitivity above 5% \pm 1 \circ C plausible due to state-dependent cloud feedback. <i>Nature Geoscience</i> , 2020, 13, 718-721.	12.9	57
17	To what extent can cirrus cloud seeding counteract global warming?. <i>Environmental Research Letters</i> , 2020, 15, 054002.	5.2	22
18	Exploring Impacts of Size-Dependent Evaporation and Entrainment in a Global Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031817.	3.3	4

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19	Disentangling the Microphysical Effects of Fire Particles on Convective Clouds Through A Case Study. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031890.	3.3	2
20	Global Radiative Impacts of Mineral Dust Perturbations Through Stratiform Clouds. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031807.	3.3	4
21	Importance of Orography for Greenland Cloud and Melt Response to Atmospheric Blocking. Journal of Climate, 2020, 33, 4187-4206.	3.2	16
22	Bias in CMIP6 models as compared to observed regional dimming and brightening. Atmospheric Chemistry and Physics, 2020, 20, 16023-16040.	4.9	25
23	A Process Study on Thinning of Arctic Winter Cirrus Clouds With High-Resolution ICON-ART Simulations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5860-5888.	3.3	15
24	Radiative Forcing of Climate: The Historical Evolution of the Radiative Forcing Concept, the Forcing Agents and their Quantification, and Applications. Meteorological Monographs, 2019, 59, 14.1-14.101.	5.0	52
25	A Positive Iris Feedback: Insights from Climate Simulations with Temperature-Sensitive Cloud-Rain Conversion. Journal of Climate, 2019, 32, 5305-5324.	3.2	14
26	Evidence of Strong Contributions From Mixed-Phase Clouds to Arctic Climate Change. Geophysical Research Letters, 2019, 46, 2894-2902.	4.0	76
27	Strong impacts on aerosol indirect effects from historical oxidant changes. Atmospheric Chemistry and Physics, 2018, 18, 7669-7690.	4.9	34
28	A Study of Enhanced Heterogeneous Ice Nucleation in Simulated Deep Convective Clouds Observed During DC3. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,396.	3.3	10
29	Lethargic Response to Aerosol Emissions in Current Climate Models. Geophysical Research Letters, 2018, 45, 9814-9823.	4.0	19
30	The Climatic Impact of Thermodynamic Phase Partitioning in Mixed-Phase Clouds. , 2018, , 237-264.		1
31	Global radiative effects of solid fuel cookstove aerosol emissions. Atmospheric Chemistry and Physics, 2018, 18, 5219-5233.	4.9	22
32	Improving climate projections by understanding how cloud phase affects radiation. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4594-4599.	3.3	29
33	Testing the sensitivity of past climates to the indirect effects of dust. Geophysical Research Letters, 2017, 44, 5807-5817.	4.0	45
34	Aerosol Effects on Climate via Mixed-Phase and Ice Clouds. Annual Review of Earth and Planetary Sciences, 2017, 45, 199-222.	11.0	83
35	Thermodynamic and dynamic responses of the hydrological cycle to solar dimming. Atmospheric Chemistry and Physics, 2017, 17, 6439-6453.	4.9	26
36	Observational constraints on mixed-phase clouds imply higher climate sensitivity. Science, 2016, 352, 224-227.	12.6	331

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37	Reply to Levermann et al.: Linear scaling for monsoons based on well-verified balance between adiabatic cooling and latent heat release. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2350-1.	7.1	11
38	On the relationships among cloud cover, mixed-phase partitioning, and planetary albedo in GCMs. Journal of Advances in Modeling Earth Systems, 2016, 8, 650-668.	3.8	120
39	Sensitivity Study on the Influence of Cloud Microphysical Parameters on Mixed-Phase Cloud Thermodynamic Phase Partitioning in CAM5. Journals of the Atmospheric Sciences, 2016, 73, 709-728.	1.7	96
40	Near-linear response of mean monsoon strength to a broad range of radiative forcings. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1510-1515.	7.1	41
41	Disentangling greenhouse warming and aerosol cooling to reveal Earth's climate sensitivity. Nature Geoscience, 2016, 9, 286-289.	12.9	86
42	The Wegener-Bergeron-Findeisen process—Its discovery and vital importance for weather and climate. Meteorologische Zeitschrift, 2015, 24, 455-461.	1.0	48
43	The Geoengineering Model Intercomparison Project Phase 6 (GeoMIP6): simulation design and preliminary results. Geoscientific Model Development, 2015, 8, 3379-3392.	3.6	140
44	Cloud Phase Changes Induced by CO ₂ Warming—a Powerful yet Poorly Constrained Cloud-Climate Feedback. Current Climate Change Reports, 2015, 1, 288-296.	8.6	43
45	Spaceborne lidar observations of the ice-nucleating potential of dust, polluted dust, and smoke aerosols in mixed-phase clouds. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6653-6665.	3.3	64
46	Cirrus cloud susceptibility to the injection of ice nuclei in the upper troposphere. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2375-2389.	3.3	47
47	Cirrus cloud seeding: a climate engineering mechanism with reduced side effects?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140116.	3.4	35
48	Intercomparison of the cloud water phase among global climate models. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3372-3400.	3.3	126
49	Influence of cloud phase composition on climate feedbacks. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3687-3700.	3.3	43
50	The climatic effects of modifying cirrus clouds in a climate engineering framework. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4174-4191.	3.3	52
51	Modeling aerosol activation in a tropical, orographic, island setting: Sensitivity tests and comparison with observations. Atmospheric Research, 2013, 134, 12-23.	4.1	5
52	Bounding the role of black carbon in the climate system: A scientific assessment. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5380-5552.	3.3	4,319
53	Inter-comparison of the phase partitioning of cloud water among global climate models. , 2013, , .		1
54	Modelling the impact of fungal spore ice nuclei on clouds and precipitation. Environmental Research Letters, 2013, 8, 014029.	5.2	55

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55	Cirrus cloud seeding has potential to cool climate. <i>Geophysical Research Letters</i> , 2013, 40, 178-182.	4.0	64
56	Cirrus Cloud Seeding has Potential to Cool climate. <i>Geophysical Research Letters</i> , 2013, , n/a-n/a.	4.0	3
57	Orographic Precipitation in the Tropics: The Dominica Experiment. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 1567-1579.	3.3	71
58	Bacteria in the ECHAM5-HAM global climate model. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8645-8661.	4.9	76
59	Atmospheric Composition Change. , 2012, , 309-365.		2
60	Uncertainties in aerosol direct and indirect effects attributed to uncertainties in convective transport parameterizations. <i>Atmospheric Research</i> , 2012, 118, 357-369.	4.1	17
61	Global modeling of mixed-phase clouds: The albedo and lifetime effects of aerosols. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	60
62	Total aerosol effect: radiative forcing or radiative flux perturbation?. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3235-3246.	4.9	184
63	Modeling of the Wegenerâ€“Bergeronâ€“Findeisen processâ€“implications for aerosol indirect effects. <i>Environmental Research Letters</i> , 2010, 5, 019801.	5.2	5
64	EC-Earth. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1357-1364.	3.3	474
65	Atmospheric composition change: Climateâ€“Chemistry interactions. <i>Atmospheric Environment</i> , 2009, 43, 5138-5192.	4.1	243
66	What governs the spread in shortwave forcings in the transient IPCC AR4 models?. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	36
67	Aerosol-climate interactions in the CAM-Oslo atmospheric GCM and investigation of associated basic shortcomings. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, 60, 459-491.	1.7	97
68	Aerosol-cloud-climate interactions in the climate model CAM-Oslo. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, 60, 492-512.	1.7	55
69	Aerosol Influence on Mixed-Phase Clouds in CAM-Oslo. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 3214-3230.	1.7	105
70	Modeling of the Wegenerâ€“Bergeronâ€“Findeisen processâ€“implications for aerosol indirect effects. <i>Environmental Research Letters</i> , 2008, 3, 045001.	5.2	39
71	Aerosol-cloud-climate interactions in the climate model CAM-Oslo. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, , .	1.7	4
72	Aerosol-climate interactions in the CAM-Oslo atmospheric GCM and investigation of associated basic shortcomings. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, , .	1.7	0

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73	Aerosol-cloud interaction inferred from MODIS satellite data and global aerosol models. Atmospheric Chemistry and Physics, 2007, 7, 3081-3101.	4.9	133
74	Predicting cloud droplet number concentration in Community Atmosphere Model (CAM)-Oslo. Journal of Geophysical Research, 2006, 111, .	3.3	61
75	Combined observational and modeling based study of the aerosol indirect effect. Atmospheric Chemistry and Physics, 2006, 6, 3583-3601.	4.9	35
76	Model intercomparison of indirect aerosol effects. Atmospheric Chemistry and Physics, 2006, 6, 3391-3405.	4.9	205