Johannes MÃ¼lmenstÃ¤dt

List of Publications by Year
in descending order

51 papers	2,585 citations	257450 24 h-index	223800 46 g-index
77 all docs	77 docs citations	77 times ranked	3078 citing authors

#	Article	IF	Citations
1	Opportunistic experiments to constrain aerosol effective radiative forcing. Atmospheric Chemistry and Physics, 2022, 22, 641-674.	4.9	44
2	Scientific data from precipitation driver response model intercomparison project. Scientific Data, 2022, 9, 123.	5.3	5
3	Extratropical Shortwave Cloud Feedbacks in the Context of the Global Circulation and Hydrological Cycle. Geophysical Research Letters, 2022, 49, .	4.0	8
4	The Global Atmosphereâ€aerosol Model ICONâ€Aâ€HAM2.3â€"Initial Model Evaluation and Effects of Radiation Balance Tuning on Aerosol Optical Thickness. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	6
5	Better calibration of cloud parameterizations and subgrid effects increases the fidelity of the E3SM Atmosphere Model version 1. Geoscientific Model Development, 2022, 15, 2881-2916.	3.6	17
6	Substantial Climate Response outside the Target Area in an Idealized Experiment of Regional Radiation Management. Climate, 2021, 9, 66.	2.8	2
7	An underestimated negative cloud feedback from cloud lifetime changes. Nature Climate Change, 2021, 11, 508-513.	18.8	51
8	The Fall and Rise of the Global Climate Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002781.	3.8	2
9	Bounding Global Aerosol Radiative Forcing of Climate Change. Reviews of Geophysics, 2020, 58, e2019RG000660.	23.0	424
10	The effect of rapid adjustments to halocarbons and N2O on radiative forcing. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	7
11	Reducing the aerosol forcing uncertainty using observational constraints on warm rain processes. Science Advances, 2020, 6, eaaz6433.	10.3	33
12	A new classification of satellite-derived liquid water cloud regimes at cloud scale. Atmospheric Chemistry and Physics, 2020, 20, 2407-2418.	4.9	7
13	Surprising similarities in model and observational aerosol radiative forcing estimates. Atmospheric Chemistry and Physics, 2020, 20, 613-623.	4.9	39
14	Constraining the Twomey effect from satellite observations: issues and perspectives. Atmospheric Chemistry and Physics, 2020, 20, 15079-15099.	4.9	49
15	Radiative forcing of climate change from the Copernicus reanalysis of atmospheric composition. Earth System Science Data, 2020, 12, 1649-1677.	9.9	22
16	The Southern Hemisphere Midlatitude Circulation Response to Rapid Adjustments and Sea Surface Temperature Driven Feedbacks. Journal of Climate, 2020, 33, 9673-9690.	3.2	3
17	Arctic clouds in ECHAM6 and their sensitivity to cloud microphysics and surface fluxes. Atmospheric Chemistry and Physics, 2019, 19, 10571-10589.	4.9	10
18	Constraining the aerosol influence on cloud liquid water path. Atmospheric Chemistry and Physics, 2019, 19, 5331-5347.	4.9	104

#	Article	IF	Citations
19	Cloud base height retrieval from multi-angle satellite data. Atmospheric Measurement Techniques, 2019, 12, 1841-1860.	3.1	18
20	Separating radiative forcing by aerosolâ€"cloud interactions and rapid cloud adjustments in the ECHAMâ€"HAMMOZ aerosolâ€"climate model using the method of partial radiative perturbations. Atmospheric Chemistry and Physics, 2019, 19, 15415-15429.	4.9	16
21	Efficacy of Climate Forcings in PDRMIP Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12824-12844.	3.3	55
22	The Radiative Forcing of Aerosolâ€"Cloud Interactions in Liquid Clouds: Wrestling and Embracing Uncertainty. Current Climate Change Reports, 2018, 4, 23-40.	8.6	70
23	Understanding Rapid Adjustments to Diverse Forcing Agents. Geophysical Research Letters, 2018, 45, 12023-12031.	4.0	113
24	Using CALIOP to estimate cloud-field base height and its uncertainty: the Cloud Base Altitude Spatial Extrapolator (CBASE) algorithm and dataset. Earth System Science Data, 2018, 10, 2279-2293.	9.9	28
25	Assessment of simulated aerosol effective radiative forcings in the terrestrial spectrum. Geophysical Research Letters, 2017, 44, 1001-1007.	4.0	27
26	Effects of diabatic and adiabatic processes on relative humidity in a GCM, and relationship between mid-tropospheric vertical wind and cloud-forming and cloud-dissipating processes. Tellus, Series A: Dynamic Meteorology and Oceanography, 2017, 69, 1272753.	1.7	0
27	Comment on â€œRethinking the Lower Bound on Aerosol Radiative Forcingâ€• Journal of Climate, 2017, 30, 6579-6584.	3.2	22
28	A Multimodel Study on Warm Precipitation Biases in Global Models Compared to Satellite Observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,806.	3.3	34
29	Multi-model simulations of aerosol and ozone radiative forcing due to anthropogenic emission changes during the periodÂ1990â€"2015. Atmospheric Chemistry and Physics, 2017, 17, 2709-2720.	4.9	87
30	A methodology for simultaneous retrieval of ice and liquid water cloud properties. Part 2: Nearâ€global retrievals and evaluation against Aâ€Train products. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 3063-3081.	2.7	31
31	Frequency of occurrence of rain from liquidâ€, mixedâ€, and iceâ€phase clouds derived from Aâ€Train satellite retrievals. Geophysical Research Letters, 2015, 42, 6502-6509.	4.0	227
32	Climate extremes in multi-model simulations of stratospheric aerosol and marine cloud brightening climate engineering. Atmospheric Chemistry and Physics, 2015, 15, 9593-9610.	4.9	37
33	Analysis of diagnostic climate model cloud parametrizations using largeâ€eddy simulations. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2199-2205.	2.7	6
34	Observed aerosol effects on marine cloud nucleation and supersaturation. , 2013, , .		1
35	Eastern Pacific Emitted Aerosol Cloud Experiment. Bulletin of the American Meteorological Society, 2013, 94, 709-729.	3.3	89
36	Hygroscopic properties of smoke-generated organic aerosol particles emitted in the marine atmosphere. Atmospheric Chemistry and Physics, 2013, 13, 9819-9835.	4.9	30

#	Article	IF	Citations
37	Characterisation and airborne deployment of a new counterflow virtual impactor inlet. Atmospheric Measurement Techniques, 2012, 5, 1259-1269.	3.1	68
38	Cloud Properties over the North Slope of Alaska: Identifying the Prevailing Meteorological Regimes. Journal of Climate, 2012, 25, 8238-8258.	3.2	14
39	Search for narrow resonances lighter than Ï’ mesons. European Physical Journal C, 2009, 62, 319-326.	3.9	6
40	The PHOBOS detector at RHIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 499, 603-623.	1.6	92
41	Centrality dependence of charged particle multiplicity at midrapidity in Au+Au collisions atsNN=130â€‚GeV. Physical Review C, 2002, 65, .	2.9	77
42	Performance of the PHOBOS silicon sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 478, 299-302.	1.6	0
43	First results from the PHOBOS experiment at RHIC. AIP Conference Proceedings, 2001, , .	0.4	0
44	Silicon pad detectors for the PHOBOS experiment at RHIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 143-149.	1.6	12
45	First performance results of the Phobos silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 473, 197-204.	1.6	5
46	Charged-Particle Pseudorapidity Density Distributions fromAu+AuCollisions atsNN=130GeV. Physical Review Letters, 2001, 87, 102303.	7.8	163
47	Energy Dependence of Particle Multiplicities in CentralAu+AuCollisions. Physical Review Letters, 2001, 88, 022302.	7.8	108
48	Ratios of Charged Antiparticles-to-Particles near Mid-Rapidity inAu+AuCollisions atsNN=130GeV. Physical Review Letters, 2001, 87, 102301.	7.8	50
49	Charged-Particle Multiplicity near Midrapidity in CentralAu+AuCollisions atsNN=56and130GeV. Physical Review Letters, 2000, 85, 3100-3104.	7.8	240
50	The PHOBOS silicon sensors. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 245-251.	0.4	5
51	Eastern Pacific Emitted Aerosol Cloud Experiment (E-PEACE). Bulletin of the American Meteorological Society, 0, , 130109100058001.	3.3	8