Daniel Klocke

List of Publications by Year
in descending order

36 papers	3,125 citations	304743 22 h-index	330143 37 g-index
39 all docs	39 docs citations	39 times ranked	4672 citing authors

#	Article	IF	Citations
1	The Art and Science of Climate Model Tuning. Bulletin of the American Meteorological Society, 2017, 98, 589-602.	3.3	343
2	Robust direct effect of carbon dioxide on tropical circulation and regional precipitation. Nature Geoscience, 2013, 6, 447-451.	12.9	338
3	Tuning the climate of a global model. Journal of Advances in Modeling Earth Systems, 2012, 4, .	3.8	334
4	Climate and carbon-cycle variability over the last millennium. Climate of the Past, 2010, 6, 723-737.	3.4	284
5	Stratospheric aerosol-Observations, processes, and impact on climate. Reviews of Geophysics, 2016, 54, 278-335.	23.0	265
6	DYAMOND: the DYnamics of the Atmospheric general circulation Modeled On Non-hydrostatic Domains. Progress in Earth and Planetary Science, 2019, 6, .	3.0	239
7	Largeâ€eddy simulations over Germany using ICON: a comprehensive evaluation. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 69-100.	2.7	175
8	Characteristics of Occasional Poor Medium-Range Weather Forecasts for Europe. Bulletin of the American Meteorological Society, 2013, 94, 1393-1405.	3.3	139
9	On Constraining Estimates of Climate Sensitivity with Present-Day Observations through Model Weighting. Journal of Climate, 2011, 24, 6092-6099.	3.2	130
10	Assessment of small-scale integrated water vapour variability during HOPE. Atmospheric Chemistry and Physics, 2015, 15, 2675-2692.	4.9	112
11	The Added Value of Large-eddy and Storm-resolving Models for Simulating Clouds and Precipitation. Journal of the Meteorological Society of Japan, 2020, 98, 395-435.	1.8	93
12	EUREC⁴A. Earth System Science Data, 2021, 13, 4067-4119.	9.9	88
13	Rediscovery of the doldrums in storm-resolving simulations over the tropical Atlantic. Nature Geoscience, 2017, 10, 891-896.	12.9	76
14	Climate Statistics in Global Simulations of the Atmosphere, from 80 to 2.5 km Grid Spacing. Journal of the Meteorological Society of Japan, 2020, 98, 73-91.	1.8	55
15	Climate feedback efficiency and synergy. Climate Dynamics, 2013, 41, 2539-2554.	3.8	54
16	Physicsâ€"Dynamics Coupling in Weather, Climate, and Earth System Models: Challenges and Recent Progress. Monthly Weather Review, 2018, 146, 3505-3544.	1.4	52
17	Assessing the scales in numerical weather and climate predictions: will exascale be the rescue?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180148.	3.4	48
18	Parameter estimation using data assimilation in an atmospheric general circulation model: From a perfect toward the real world. Journal of Advances in Modeling Earth Systems, 2013, 5, 58-70.	3.8	41

#	Article	IF	Citations
19	Size-Resolved Evaluation of Simulated Deep Tropical Convection. Monthly Weather Review, 2018, 146, 2161-2182.	1.4	31
20	A comparison of two numerical weather prediction methods for diagnosing fastâ€physics errors in climate models. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 517-524.	2.7	30
21	Gravity Waves in Global Highâ€Resolution Simulations With Explicit and Parameterized Convection. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4446-4459.	3.3	27
22	Intercomparison of Gravity Waves in Global Convection-Permitting Models. Journals of the Atmospheric Sciences, 2019, 76, 2739-2759.	1.7	26
23	Assessment of different metrics for physical climate feedbacks. Climate Dynamics, 2013, 41, 1173-1185.	3.8	23
24	Different Representation of Mesoscale Convective Systems in Convection-Permitting and Convection-Parameterizing NWP Models and Its Implications for Large-Scale Forecast Evolution. Atmosphere, 2019, 10, 503.	2.3	20
25	Investigating the predictability of a Mediterranean tropicalâ€like cyclone using a stormâ€resolving model. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1598-1610.	2.7	19
26	Physically Constrained Stochastic Shallow Convection in Realistic Kilometerâ€Scale Simulations. Journal of Advances in Modeling Earth Systems, 2018, 10, 2755-2776.	3.8	15
27	The Two Diurnal Modes of Tropical Upward Motion. Geophysical Research Letters, 2019, 46, 2911-2921.	4.0	14
28	Atmospheric energy budget response to idealized aerosol perturbation in tropical cloud systems. Atmospheric Chemistry and Physics, 2020, 20, 4523-4544.	4.9	11
29	Employing airborne radiation and cloud microphysics observations to improve cloud representation in ICON at kilometer-scale resolution in the Arctic. Atmospheric Chemistry and Physics, 2020, 20, 13145-13165.	4.9	10
30	Atmospheric Energy Spectra in Global Kilometre-Scale Models. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 74, 280-299.	1.7	8
31	Pair Correlations and Spatial Statistics of Deep Convection over the Tropical Atlantic. Journals of the Atmospheric Sciences, 2019, 76, 3211-3228.	1.7	6
32	Longâ€term singleâ€column model intercomparison of diurnal cycle of precipitation over midlatitude and tropical land. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 641-669.	2.7	6
33	An automated cirrus classification. Atmospheric Chemistry and Physics, 2018, 18, 6157-6169.	4.9	5
34	The ICON Single-Column Mode. Atmosphere, 2021, 12, 906.	2.3	3
35	Future Community Efforts in Understanding and Modeling Atmospheric Processes. Bulletin of the American Meteorological Society, 2018, 99, ES159-ES162.	3.3	1
36	An International Conference that Presents Current Advances in Simulating and Observing Atmospheric Processes. Bulletin of the American Meteorological Society, 2019, 100, ES251-ES254.	3.3	0