

# Roel A J Neggers

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

2,382  
citations

304743

22  
h-index

233421

45  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term single-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
2	Size-Dependent Characteristics of Surface-Rooted Three-Dimensional Convective Objects in Continental Shallow Cumulus Simulations. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	2
3	The COMBLE Campaign: A Study of Marine Boundary Layer Clouds in Arctic Cold-Air Outbreaks. Bulletin of the American Meteorological Society, 2022, 103, E1371-E1389.	3.3	17
4	A Binomial Stochastic Framework for Efficiently Modeling Discrete Statistics of Convective Populations. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002229.	3.8	5
5	Case study of a humidity layer above Arctic stratocumulus and potential turbulent coupling with the cloud top. Atmospheric Chemistry and Physics, 2021, 21, 6347-6364.	4.9	12
6	Linking Large-Eddy Simulations to Local Cloud Observations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002209.	3.8	9
7	The Atmospheric Boundary Layer and the "Gray Zone" of Turbulence: A Critical Review. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030317.	3.3	66
8	Configuring LES Based on Dropsonde Data in Sparsely Sampled Areas in the Subtropical Atlantic. Journal of Applied Meteorology and Climatology, 2020, 59, 297-315.	1.5	2
9	Size dependence in chord characteristics from simulated and observed continental shallow cumulus. Atmospheric Chemistry and Physics, 2020, 20, 10211-10230.	4.9	4
10	Investigating the Diurnal Evolution of the Cloud Size Distribution of Continental Cumulus Convection Using Multiday LES. Journals of the Atmospheric Sciences, 2019, 76, 729-747.	1.7	26
11	Local and Remote Controls on Arctic Mixed-Layer Evolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2214-2237.	3.8	24
12	Power-Law Scaling in the Internal Variability of Cumulus Cloud Size Distributions due to Subsampling and Spatial Organization. Journals of the Atmospheric Sciences, 2019, 76, 1489-1503.	1.7	22
13	Evaluating and Improving a PDF Cloud Scheme Using High-Resolution Super Large Domain Simulations. Journal of Advances in Modeling Earth Systems, 2018, 10, 2245-2268.	3.8	2
14	Can We Use Single-Column Models for Understanding the Boundary Layer Cloud-Climate Feedback?. Journal of Advances in Modeling Earth Systems, 2018, 10, 245-261.	3.8	12
15	Investigating the Scale Adaptivity of a Size-Filtered Mass Flux Parameterization in the Gray Zone of Shallow Cumulus Convection. Journals of the Atmospheric Sciences, 2018, 75, 1195-1214.	1.7	10
16	Role of air-mass transformations in exchange between the Arctic and mid-latitudes. Nature Geoscience, 2018, 11, 805-812.	12.9	105
17	Single-Column Model Simulations of Subtropical Marine Boundary-Layer Cloud Transitions Under Weakening Inversions. Journal of Advances in Modeling Earth Systems, 2017, 9, 2385-2412.	3.8	27
18	What determines the fate of rising parcels in a heterogeneous environment?. Journal of Advances in Modeling Earth Systems, 2016, 8, 1674-1690.	3.8	9

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19	ARM's Impact on Numerical Weather Prediction at ECMWF. Meteorological Monographs, 2016, 57, 28.1-28.13.	5.0	13
20	Exploring bin-microphysics models for moist convective transport and clouds. Journal of Advances in Modeling Earth Systems, 2015, 7, 2079-2104.	3.8	63
21	Attributing the behavior of low-level clouds in large-scale models to subgrid-scale parameterizations. Journal of Advances in Modeling Earth Systems, 2015, 7, 2029-2043.	3.8	20
22	Evaluation of Cloud Fraction Simulated by Seven SCMs against the ARM Observations at the SGP Site*. Journal of Climate, 2014, 27, 6698-6719.	3.2	10
23	Modeled Contrast in the Response of the Surface Energy Balance to Heat Waves for Forest and Grassland. Journal of Hydrometeorology, 2014, 15, 973-989.	1.9	12
24	Evaluation of boundary layer cloud parameterizations in the ECHAM5 general circulation model using CALIPSO and CloudSat satellite data. Journal of Advances in Modeling Earth Systems, 2014, 6, 300-314.	3.8	17
25	Constraining a System of Interacting Parameterizations through Multiple-Parameter Evaluation: Tracing a Compensating Error between Cloud Vertical Structure and Cloud Overlap. Journal of Climate, 2013, 26, 6698-6715.	3.2	17
26	CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models. Journal of Advances in Modeling Earth Systems, 2013, 5, 826-842.	3.8	140
27	The GASS/EUCLIPSE model intercomparison of the stratocumulus transition as observed during ASTEX: LES results. Journal of Advances in Modeling Earth Systems, 2013, 5, 483-499.	3.8	55
28	Evaluation of Precipitation Simulated by Seven SCMs against the ARM Observations at the SGP Site*. Journal of Climate, 2013, 26, 5467-5492.	3.2	31
29	The GASS/EUCLIPSE model intercomparison of the stratocumulus transition as observed during ASTEX: LES results. Journal of Advances in Modeling Earth Systems, 2013, , n/a-n/a.	3.8	3
30	Continuous Single-Column Model Evaluation at a Permanent Meteorological Supersite. Bulletin of the American Meteorological Society, 2012, 93, 1389-1400.	3.3	79
31	Overlap statistics of cumuliform boundary-layer cloud fields in large-eddy simulations. Journal of Geophysical Research, 2011, 116, .	3.3	29
32	A Dual Mass Flux Framework for Boundary Layer Convection. Part I: Transport. Journals of the Atmospheric Sciences, 2009, 66, 1465-1487.	1.7	119
33	A Dual Mass Flux Framework for Boundary Layer Convection. Part II: Clouds. Journals of the Atmospheric Sciences, 2009, 66, 1489-1506.	1.7	91
34	Intercomparison of model simulations of mixed-phase clouds observed during the ARM Mixed-Phase Arctic Cloud Experiment. I: single-layer cloud. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 979-1002.	2.7	224
35	Impact Mechanisms of Shallow Cumulus Convection on Tropical Climate Dynamics*. Journal of Climate, 2007, 20, 2623-2642.	3.2	85
36	Variance scaling in shallow cumulus-topped mixed layers. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 1629-1641.	2.7	19

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37	A simple equilibrium model for shallow-cumulus-topped mixed layers. <i>Theoretical and Computational Fluid Dynamics</i> , 2006, 20, 305-322.	2.2	62
38	Cloud representation in general-circulation models over the northern Pacific Ocean: A EUROCS intercomparison study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 3245-3267.	2.7	77
39	An Evaluation of Mass Flux Closures for Diurnal Cycles of Shallow Cumulus. <i>Monthly Weather Review</i> , 2004, 132, 2525-2538.	1.4	48
40	Shallow cumulus convection: A validation of large-eddy simulation against aircraft and Landsat observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 2671-2696.	2.7	53
41	A case study of tropopause cyclogenesis. <i>Meteorological Applications</i> , 2003, 10, 187-199.	2.1	8
42	Size Statistics of Cumulus Cloud Populations in Large-Eddy Simulations. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 1060-1074.	1.7	115
43	A Multiparcel Model for Shallow Cumulus Convection. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 1655-1668.	1.7	147
44	Large-eddy simulation of the diurnal cycle of shallow cumulus convection over land. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002, 128, 1075-1093.	2.7	269
45	Simulations of Trade Wind Cumuli under a Strong Inversion. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 1870-1891.	1.7	212