

# Stephan R De Roode

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

2,650  
citations

257450

24  
h-index

233421

45  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2328  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model development in practice: a comprehensive update to the boundary layer schemes in HARMONIE-AROME cycle 40. <i>Geoscientific Model Development</i> , 2022, 15, 1513-1543.	3.6	3
2	Addressing the Grid-Size Sensitivity Issue in Large-Eddy Simulations of Stable Boundary Layers. <i>Boundary-Layer Meteorology</i> , 2021, 178, 63-89.	2.3	13
3	Clouds and Convective Self-Aggregation in a Multimodel Ensemble of Radiative-Convective Equilibrium Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002138.	3.8	86
4	The Influence of Convective Momentum Transport and Vertical Wind Shear on the Evolution of a Cold Air Outbreak. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001991.	3.8	10
5	A Bound on Ekman Pumping. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001976.	3.8	0
6	How Wind Shear Affects Trade-wind Cumulus Convection. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002183.	3.8	16
7	Transitions in the wintertime near-surface temperature inversion at Dome C, Antarctica. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 930-946.	2.7	23
8	Turbulent Transport in the Gray Zone: A Large Eddy Model Intercomparison Study of the CONSTRAIN Cold Air Outbreak Case. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 597-623.	3.8	16
9	Towards Adaptive Grids for Atmospheric Boundary-Layer Simulations. <i>Boundary-Layer Meteorology</i> , 2018, 167, 421-443.	2.3	91
10	Building the Next Generation of Climate Modelers: Scale-Aware Physics Parameterization and the "Grey Zone" Challenge. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, ES185-ES189.	3.3	5
11	A Diagnosis of Excessive Mixing in Smagorinsky Subfilter-Scale Turbulent Kinetic Energy Models. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 1495-1511.	1.7	22
12	Exploring the convective grey zone with regional simulations of a cold air outbreak. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2537-2555.	2.7	49
13	Single-Column Model Simulations of Subtropical Marine Boundary-Layer Cloud Transitions Under Weakening Inversions. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2385-2412.	3.8	27
14	Large-Eddy Simulations of EUCLIPSE-GASS Lagrangian Stratocumulus-to-Cumulus Transitions: Mean State, Turbulence, and Decoupling. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 2485-2508.	1.7	67
15	Depolarization Lidar Determination Of Cloud-Base Microphysical Properties. <i>EPJ Web of Conferences</i> , 2016, 119, 16010.	0.3	1
16	How large-scale subsidence affects stratocumulus transitions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 691-701.	4.9	26
17	Evaluation of low-cloud climate feedback through single-column model equilibrium states. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 819-832.	2.7	11
18	An LES model study of the influence of the free tropospheric thermodynamic conditions on the stratocumulus response to a climate perturbation. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 670-691.	3.8	60

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19	A single-column model intercomparison on the stratocumulus representation in present-day and future climate. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 617-647.	3.8	33
20	A depolarisation lidar-based method for the determination of liquid-cloud microphysical properties. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 237-266.	3.1	47
21	Improved model output statistics of numerical weather prediction based irradiance forecasts for solar power applications. <i>Solar Energy</i> , 2015, 118, 634-645.	6.1	49
22	Factors Controlling Rapid Stratocumulus Cloud Thinning. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 655-664.	1.7	44
23	A mixed-layer model study of the stratocumulus response to changes in large-scale conditions. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 1256-1270.	3.8	35
24	A mixed-layer model perspective on stratocumulus steady states in a perturbed climate. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 2119-2131.	2.7	19
25	Understanding Convective Extreme Precipitation Scaling Using Observations and an Entraining Plume Model. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 3641-3655.	1.7	107
26	CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 826-842.	3.8	140
27	The GASS/EUCLIPSE model intercomparison of the stratocumulus transition as observed during ASTEX: LES results. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 483-499.	3.8	55
28	Marine low cloud sensitivity to an idealized climate change: The CGILS LES intercomparison. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 234-258.	3.8	128
29	Parameterization of the Vertical Velocity Equation for Shallow Cumulus Clouds. <i>Monthly Weather Review</i> , 2012, 140, 2424-2436.	1.4	87
30	Dew Formation, Eddy-Correlation Latent Heat Fluxes, and the Surface Energy Imbalance at Cabauw During Stable Conditions. <i>Boundary-Layer Meteorology</i> , 2010, 135, 369-383.	2.3	25
31	Formulation of the Dutch Atmospheric Large-Eddy Simulation (DALES) and overview of its applications. <i>Geoscientific Model Development</i> , 2010, 3, 415-444.	3.6	213
32	The Scaling Behaviour of a Turbulent Kinetic Energy Closure Model for Stably Stratified Conditions. <i>Boundary-Layer Meteorology</i> , 2008, 127, 17-36.	2.3	32
33	The effect of temperature and humidity fluctuations on the liquid water path of non-precipitating closed-cell stratocumulus clouds. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 403-416.	2.7	13
34	The Role of Eddy Diffusivity Profiles on Stratocumulus Liquid Water Path Biases. <i>Monthly Weather Review</i> , 2007, 135, 2786-2793.	1.4	6
35	A single-column model intercomparison of a heavily drizzling stratocumulus-topped boundary layer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	60
36	Do stratocumulus clouds detrain? FIRE I data revisited. <i>Boundary-Layer Meteorology</i> , 2007, 122, 479-491.	2.3	29

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37	Evaluation of Large-Eddy Simulations via Observations of Nocturnal Marine Stratocumulus. Monthly Weather Review, 2005, 133, 1443-1462.	1.4	519
38	Large-Eddy Simulation: How Large is Large Enough?. Journals of the Atmospheric Sciences, 2004, 61, 403-421.	1.7	135
39	Countergradient Fluxes of Conserved Variables in the Clear convective and Stratocumulus-topped Boundary Layer: The role of the Entrainment Flux. Boundary-Layer Meteorology, 2004, 112, 179-196.	2.3	15
40	Observations and numerical simulations of the diurnal cycle of the EUROCS stratocumulus case. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 3269-3296.	2.7	113
41	Mass-Flux Budgets of Shallow Cumulus Clouds. Journals of the Atmospheric Sciences, 2003, 60, 137-151.	1.7	22
42	Surface and tethered-balloon observations of actinic flux: Effects of arctic stratus, surface albedo, and solar zenith angle. Journal of Geophysical Research, 2001, 106, 27497-27507.	3.3	10
43	Surface energy balance and turbulence characteristics observed at the SHEBA Ice Camp during FIRE III. Journal of Geophysical Research, 2001, 106, 15313-15322.	3.3	24
44	Analogies between Mass-Flux and Reynolds-Averaged Equations. Journals of the Atmospheric Sciences, 2000, 57, 1585-1598.	1.7	41
45	An Isotropic Light Sensor for Measurements of Visible Actinic Flux in Clouds. Journal of Atmospheric and Oceanic Technology, 1999, 16, 1698-1701.	1.3	3
46	Observed Lagrangian Transition of Stratocumulus into Cumulus during ASTEX: Mean State and Turbulence Structure. Journals of the Atmospheric Sciences, 1997, 54, 2157-2173.	1.7	112