

# Rich Neale

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

13,012  
citations

109137

35  
h-index

182168

51  
g-index

55  
all docs

55  
docs citations

55  
times ranked

11067  
citing authors

#	ARTICLE	IF	CITATIONS
1	LGM Paleoclimate Constraints Inform Cloud Parameterizations and Equilibrium Climate Sensitivity in CESM2. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	26
2	Better calibration of cloud parameterizations and subgrid effects increases the fidelity of the E3SM Atmosphere Model version 1. <i>Geoscientific Model Development</i> , 2022, 15, 2881-2916.	1.3	17
3	Evaluating the Impact of Chemical Complexity and Horizontal Resolution on Tropospheric Ozone Over the Conterminous US With a Global Variable Resolution Chemistry Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	20
4	An Evaluation of the Large-scale Atmospheric Circulation and Its Variability in CESM2 and Other CMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032835.	1.2	55
5	CO <sub>2</sub> Increase Experiments Using the CESM: Relationship to Climate Sensitivity and Comparison of CESM1 to CESM2. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002120.	1.3	25
6	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	1.3	935
7	Intraseasonal, Seasonal, and Interannual Characteristics of Regional Monsoon Simulations in CESM2. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001962.	1.3	17
8	Flash droughts present a new challenge for subseasonal-to-seasonal prediction. <i>Nature Climate Change</i> , 2020, 10, 191-199.	8.1	210
9	The Role of the Mean State on MJO Simulation in CESM2 Ensemble Simulation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089824.	1.5	16
10	An Unprecedented Set of High-Resolution Earth System Simulations for Understanding Multiscale Interactions in Climate Variability and Change. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002298.	1.3	104
11	High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). <i>Geophysical Research Letters</i> , 2019, 46, 8329-8337.	1.5	249
12	Regionally refined test bed in E3SM atmosphere model version 1 (EAMv1) and applications for high-resolution modeling. <i>Geoscientific Model Development</i> , 2019, 12, 2679-2706.	1.3	49
13	The DOE E3SM Coupled Model Version 1: Description and Results at High Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4095-4146.	1.3	112
14	An Overview of the Atmospheric Component of the Energy Exascale Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2377-2411.	1.3	168
15	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	1.2	261
16	Evolution of the Double-ITCZ Bias Through CESM2 Development. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1873-1893.	1.3	20
17	Northern Hemisphere Blocking in 1/25-km Resolution E3SM v0.3 Atmosphere-Land Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2465-2482.	1.2	7
18	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2089-2129.	1.3	404

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19	The Single Column Atmosphere Model Version 6 (SCAM6): Not a Scam but a Tool for Model Evaluation and Development. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1381-1401.	1.3	36
20	Effects of Model Resolution, Physics, and Coupling on Southern Hemisphere Storm Tracks in CESM1.3. <i>Geophysical Research Letters</i> , 2019, 46, 12408-12416.	1.5	39
21	The Role of Convective Gustiness in Reducing Seasonal Precipitation Biases in the Tropical West Pacific. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 961-970.	1.3	26
22	Simulation of the Central Indian Ocean Mode in CESM: Implications for the Indian Summer Monsoon System. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 58-72.	1.2	5
23	Understanding Cloud and Convective Characteristics in Version 1 of the E3SM Atmosphere Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2618-2644.	1.3	105
24	A global coupled ensemble data assimilation system using the Community Earth System Model and the Data Assimilation Research Testbed. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 2404-2430.	1.0	22
25	Regional Climate Simulations With the Community Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1245-1265.	1.3	41
26	The path to CAM6: coupled simulations with CAM5.4 and CAM5.5. <i>Geoscientific Model Development</i> , 2018, 11, 235-255.	1.3	66
27	NCAR Release of CAM6 in CESM2.0: A Reformulation of the Spectral Element Dynamical Core in Dry-Mass Vertical Coordinates With Comprehensive Treatment of Condensates and Energy. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1537-1570.	1.3	91
28	Practice and philosophy of climate model tuning across six US modeling centers. <i>Geoscientific Model Development</i> , 2017, 10, 3207-3223.	1.3	100
29	Parametric sensitivity analysis of precipitation at global and local scales in the Community Atmosphere Model CAM5. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 382-411.	1.3	80
30	A new ensemble-based consistency test for the Community Earth System Model (pyCECT v1.0). <i>Geoscientific Model Development</i> , 2015, 8, 2829-2840.	1.3	35
31	The Community Earth System Model (CESM) Large Ensemble Project: A Community Resource for Studying Climate Change in the Presence of Internal Climate Variability. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1333-1349.	1.7	1,723
32	The MJO and global warming: a study in CCSM4. <i>Climate Dynamics</i> , 2014, 42, 2019-2031.	1.7	37
33	Exploratory High-Resolution Climate Simulations using the Community Atmosphere Model (CAM). <i>Journal of Climate</i> , 2014, 27, 3073-3099.	1.2	184
34	How Well Are the Distribution and Extreme Values of Daily Precipitation over North America Represented in the Community Climate System Model? A Comparison to Reanalysis, Satellite, and Gridded Station Data. <i>Journal of Climate</i> , 2014, 27, 5219-5239.	1.2	29
35	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1339-1360.	1.7	1,848
36	AMIP Simulation with the CAM4 Spectral Element Dynamical Core. <i>Journal of Climate</i> , 2013, 26, 689-709.	1.2	60

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37	The Mean Climate of the Community Atmosphere Model (CAM4) in Forced SST and Fully Coupled Experiments. <i>Journal of Climate</i> , 2013, 26, 5150-5168.	1.2	639
38	Will There Be a Significant Change to El Niño in the Twenty-First Century?. <i>Journal of Climate</i> , 2012, 25, 2129-2145.	1.2	129
39	Improved Madden-Julian Oscillations with Improved Physics: The Impact of Modified Convection Parameterizations. <i>Journal of Climate</i> , 2012, 25, 1116-1136.	1.2	46
40	Implementation of new diffusion/filtering operators in the CAM-FV dynamical core. <i>International Journal of High Performance Computing Applications</i> , 2012, 26, 63-73.	2.4	34
41	Toward a minimal representation of aerosols in climate models: description and evaluation in the Community Atmosphere Model CAM5. <i>Geoscientific Model Development</i> , 2012, 5, 709-739.	1.3	807
42	Coupling between Greenland blocking and the North Atlantic Oscillation pattern. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	69
43	Parameterizing Convective Organization to Escape the Entrainment Dilemma. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, n/a-n/a.	1.3	161
44	The Community Climate System Model Version 4. <i>Journal of Climate</i> , 2011, 24, 4973-4991.	1.2	2,428
45	The Madden-Julian Oscillation in CCSM4. <i>Journal of Climate</i> , 2011, 24, 6261-6282.	1.2	59
46	Improvements in a half degree atmosphere/land version of the CCSM. <i>Climate Dynamics</i> , 2010, 34, 819-833.	1.7	212
47	Application of MJO Simulation Diagnostics to Climate Models. <i>Journal of Climate</i> , 2009, 22, 6413-6436.	1.2	331
48	The Impact of Convection on ENSO: From a Delayed Oscillator to a Series of Events. <i>Journal of Climate</i> , 2008, 21, 5904-5924.	1.2	532
49	Organization of tropical convection in a GCM with varying vertical resolution; implications for the simulation of the Madden-Julian Oscillation. <i>Climate Dynamics</i> , 2001, 17, 777-793.	1.7	125
50	A standard test for AGCMs including their physical parametrizations: I: The proposal. <i>Atmospheric Science Letters</i> , 2000, 1, 101-107.	0.8	202
51	A proposal for the measurement of boundary layer temperature gradient using Doppler lidar. <i>Atmospheric Science Letters</i> , 2000, 1, 136-141.	0.8	9
52	Idealized simulations of the tropical climate and variability in the Single Column Atmosphere Model (SCAM). Part I: Radiative-convective equilibrium. <i>Journal of Advances in Modeling Earth Systems</i> , 0, , .	1.3	0