

# Rich Neale

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9202924/publications.pdf>

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	The Community Climate System Model Version 4. <i>Journal of Climate</i> , 2011, 24, 4973-4991.	1.2	2,428
2	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
3	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
4	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	1.3	935
5	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
6	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
7	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
8	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
9	Application of MJO Simulation Diagnostics to Climate Models. <i>Journal of Climate</i> , 2009, 22, 6413-6436.	1.2	331
10	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	1.2	261
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	Improvements in a half degree atmosphere/land version of the CCSM. <i>Climate Dynamics</i> , 2010, 34, 819-833.	1.7	212
13	Flash droughts present a new challenge for subseasonal-to-seasonal prediction. <i>Nature Climate Change</i> , 2020, 10, 191-199.	8.1	210
14	A standard test for AGCMs including their physical parametrizations: I: The proposal. <i>Atmospheric Science Letters</i> , 2000, 1, 101-107.	0.8	202
15	Exploratory High-Resolution Climate Simulations using the Community Atmosphere Model (CAM). <i>Journal of Climate</i> , 2014, 27, 3073-3099.	1.2	184
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	Practice and philosophy of climate model tuning across six US modeling centers. <i>Geoscientific Model Development</i> , 2017, 10, 3207-3223.	1.3	100
24	NCAR Release of CAM-SE 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
25	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
26	Coupling between Greenland blocking and the North Atlantic Oscillation pattern. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	69
27	The path to CAM6: coupled simulations with CAM5.4 and CAM5.5. <i>Geoscientific Model Development</i> , 2018, 11, 235-255.	1.3	66
28	AMIP Simulation with the CAM4 Spectral Element Dynamical Core. <i>Journal of Climate</i> , 2013, 26, 689-709.	1.2	60
29	The Madden-Julian Oscillation in CCSM4. <i>Journal of Climate</i> , 2011, 24, 6261-6282.	1.2	59
30	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
31	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
32	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
33	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
34	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
35	The MJO and global warming: a study in CCSM4. <i>Climate Dynamics</i> , 2014, 42, 2019-2031.	1.7	37
36	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

#	ARTICLE	IF	CITATIONS
37	A new ensemble-based consistency test for the Community Earth System Model (pyCECT v1.0). Geoscientific Model Development, 2015, 8, 2829-2840.	1.3	35
38	Implementation of new diffusion/filtering operators in the CAM-FV dynamical core. International Journal of High Performance Computing Applications, 2012, 26, 63-73.	2.4	34
39	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. Journal of Climate, 2014, 27, 5219-5239.	1.2	29
40	The Role of Convective Gustiness in Reducing Seasonal Precipitation Biases in the Tropical West Pacific. Journal of Advances in Modeling Earth Systems, 2018, 10, 961-970.	1.3	26
41	LGM Paleoclimate Constraints Inform Cloud Parameterizations and Equilibrium Climate Sensitivity in CESM2. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	26
42	CO <sub>2</sub> Increase Experiments Using the CESM: Relationship to Climate Sensitivity and Comparison of CESM1 to CESM2. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002120.	1.3	25
43	A global coupled ensemble data assimilation system using the Community Earth System Model and the Data Assimilation Research Testbed. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 2404-2430.	1.0	22
44	Evolution of the Double-ITCZ Bias Through CESM2 Development. Journal of Advances in Modeling Earth Systems, 2019, 11, 1873-1893.	1.3	20
45	Evaluating the Impact of Chemical Complexity and Horizontal Resolution on Tropospheric Ozone Over the Conterminous US With a Global Variable Resolution Chemistry Model. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	20
46	Intraseasonal, Seasonal, and Interannual Characteristics of Regional Monsoon Simulations in CESM2. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001962.	1.3	17
47	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.	1.3	17
48	The Role of the Mean State on MJO Simulation in CESM2 Ensemble Simulation. Geophysical Research Letters, 2020, 47, e2020GL089824.	1.5	16
49	A proposal for the measurement of boundary layer temperature gradient using Doppler lidar. Atmospheric Science Letters, 2000, 1, 136-141.	0.8	9
50	Northern Hemisphere Blocking in 1/25-km Resolution E3SM v0.3 Atmosphere-Land Simulations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2465-2482.	1.2	7
51	Simulation of the Central Indian Ocean Mode in CESM: Implications for the Indian Summer Monsoon System. Journal of Geophysical Research D: Atmospheres, 2018, 123, 58-72.	1.2	5
52	Idealized simulations of the tropical climate and variability in the Single Column Atmosphere Model (SCAM). Part I: Radiative-convective equilibrium. Journal of Advances in Modeling Earth Systems, 0, , .	1.3	0