David A Bailey

List of Publications by Year
in descending order

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Version: 2024-02-01

56 papers	5,807 citations	147726 31 h-index	161767 54 g-index
64 all docs	64 docs citations	64 times ranked	7073 citing authors

#	Article	IF	Citations
1	The Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001916.	1.3	935
2	Abrupt onset of the Little Ice Age triggered by volcanism and sustained by seaâ€ice/ocean feedbacks. Geophysical Research Letters, 2012, 39, .	1.5	544
3	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part I: Mean states. Ocean Modelling, 2014, 73, 76-107.	1.0	320
4	Arctic Sea Ice in CMIP6. Geophysical Research Letters, 2020, 47, e2019GL086749.	1.5	304
5	Predicting 21stâ€century polar bear habitat distribution from global climate models. Ecological Monographs, 2009, 79, 25-58.	2.4	299
6	Improved Sea Ice Shortwave Radiation Physics in CCSM4: The Impact of Melt Ponds and Aerosols on Arctic Sea Ice. Journal of Climate, 2012, 25, 1413-1430.	1.2	299
7	A new synoptic scale resolving global climate simulation using the Community Earth System Model. Journal of Advances in Modeling Earth Systems, 2014, 6, 1065-1094.	1.3	262
8	High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). Geophysical Research Letters, 2019, 46, 8329-8337.	1.5	249
9	Improvements in a half degree atmosphere/land version of the CCSM. Climate Dynamics, 2010, 34, 819-833.	1.7	212
10	Climate Sensitivity of the Community Climate System Model, Version 4. Journal of Climate, 2012, 25, 3053-3070.	1.2	190
11	Greenhouse gas mitigation can reduce sea-ice loss and increase polar bear persistence. Nature, 2010, 468, 955-958.	13.7	151
12	The Influence of Local Feedbacks and Northward Heat Transport on the Equilibrium Arctic Climate Response to Increased Greenhouse Gas Forcing. Journal of Climate, 2012, 25, 5433-5450.	1.2	133
13	Antarctic Sea Ice Area in CMIP6. Geophysical Research Letters, 2020, 47, e2019GL086729.	1.5	129
14	The Low-Resolution CCSM4. Journal of Climate, 2012, 25, 3993-4014.	1.2	125
15	Centennial-scale climate change from decadally-paced explosive volcanism: a coupled sea ice-ocean mechanism. Climate Dynamics, 2011, 37, 2373-2387.	1.7	118
16	Inherent sea ice predictability in the rapidly changing Arctic environment of the Community Climate System Model, version 3. Climate Dynamics, 2011, 36, 1239-1253.	1.7	116
17	Twenty-First-Century Arctic Climate Change in CCSM4. Journal of Climate, 2012, 25, 2696-2710.	1.2	112
18	The Connected Isotopic Water Cycle in the Community Earth System Model Version 1. Journal of Advances in Modeling Earth Systems, 2019, 11, 2547-2566.	1.3	111

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19	An Unprecedented Set of Highâ€Resolution Earth System Simulations for Understanding Multiscale Interactions in Climate Variability and Change. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002298.	1.3	104
20	Late-Twentieth-Century Simulation of Arctic Sea Ice and Ocean Properties in the CCSM4. Journal of Climate, 2012, 25, 1431-1452.	1.2	99
21	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part III: Hydrography and fluxes. Ocean Modelling, 2016, 100, 141-161.	1.0	81
22	Impact of sea ice on the marine iron cycle and phytoplankton productivity. Biogeosciences, 2014, 11, 4713-4731.	1.3	72
23	Changes in Arctic clouds during intervals of rapid sea ice loss. Climate Dynamics, 2011, 36, 1475-1489.	1.7	68
24	An assessment of Southern Ocean water masses and sea ice during 1988â€“2007 in a suite of interannual CORE-II simulations. Ocean Modelling, 2015, 94, 67-94.	1.0	68
25	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part I: Sea ice and solid freshwater. Ocean Modelling, 2016, 99, 110-132.	1.0	64
26	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part II: Liquid freshwater. Ocean Modelling, 2016, 99, 86-109.	1.0	58
27	Formation and pathways of North Atlantic Deep Water in a coupled iceâ€“ocean model of the Arcticâ€“North Atlantic Oceans. Climate Dynamics, 2005, 25, 497-516.	1.7	49
28	Thicker Clouds and Accelerated Arctic Sea Ice Decline: The Atmosphereâ€Sea Ice Interactions in Spring. Geophysical Research Letters, 2019, 46, 6980-6989.	1.5	47
29	An inter-comparison of the mass budget of the Arctic sea ice in CMIP6 models. Cryosphere, 2021, 15, 951-982.	1.5	42
30	Snow-albedo feedback and the spring transition in a regional climate system model: Influence of land surface model. Journal of Geophysical Research, 1998, 103, 29037-29049.	3.3	39
31	True to Milankovitch: Glacial Inception in the New Community Climate System Model. Journal of Climate, 2012, 25, 2226-2239.	1.2	38
32	The Role of Natural Versus Forced Change in Future Rapid Summer Arctic Ice Loss. Geophysical Monograph Series, 0, , 133-150.	0.1	34
33	Warm Arctic, Increased Winter Sea Ice Growth?. Geophysical Research Letters, 2018, 45, 12,922.	1.5	34
34	Arctic and Antarctic Sea Ice Mean State in the Community Earth System Model Version 2 and the Influence of Atmospheric Chemistry. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015934.	1.0	29
35	Development of an Antarctic Regional Climate System Model. Part I: Sea Ice and Large-Scale Circulation. Journal of Climate, 2000, 13, 1337-1350.	1.2	26
36	CO₂ 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

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37	Relationship between synoptic forcing and polynya formation in the Cosmonaut Sea: 1. Polynya climatology. Journal of Geophysical Research, 2004, 109, .	3.3	22
38	Development of an Antarctic Regional Climate System Model. Part II: Station Validation and Surface Energy Balance. Journal of Climate, 2000, 13, 1351-1361.	1.2	20
39	Satellite observation and climate system model simulation of the St. Lawrence Island polynya. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 49, 277.	0.8	18
40	Impact of a New Sea Ice Thermodynamic Formulation in the CESM2 Sea Ice Component. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002154.	1.3	17
41	Relationship between synoptic forcing and polynya formation in the Cosmonaut Sea: 2. Regional climate model simulations. Journal of Geophysical Research, 2004, 109, .	3.3	15
42	Changing Seasonal Predictability of Arctic Summer Sea Ice Area in a Warming Climate. Journal of Climate, 2019, 32, 4963-4979.	1.2	14
43	An Overview of Antarctic Sea Ice in the Community Earth System Model Version 2, Part I: Analysis of the Seasonal Cycle in the Context of Sea Ice Thermodynamics and Coupled Atmosphereâ€Oceanâ€Ice Processes. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002143.	1.3	13
44	Snow on Arctic Sea Ice in a Warming Climate as Simulated in CESM. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016308.	1.0	13
45	Arctic shipping guidance from the CMIP6 ensemble on operational and infrastructural timescales. Climatic Change, 2021, 167, 1.	1.7	13
46	Impact of ocean circulation on regional polar climate simulations using the Arctic Region Climate System Model. Annals of Glaciology, 1997, 25, 203-207.	2.8	10
47	Quality control for community-based sea-ice model development. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170344.	1.6	9
48	E3SMv0â€HiLAT: A Modified Climate System Model Targeted for the Study of Highâ€Latitude Processes. Journal of Advances in Modeling Earth Systems, 2019, 11, 2814-2843.	1.3	9
49	Less Surface Sea Ice Melt in the CESM2 Improves Arctic Sea Ice Simulation With Minimal Nonâ€Polar Climate Impacts. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	9
50	Improved parallel performance of the CICE model in CESM1. International Journal of High Performance Computing Applications, 2015, 29, 154-165.	2.4	7
51	Impact of ocean circulation on regional polar climate simulations using the Arctic Region Climate System Model. Annals of Glaciology, 1997, 25, 203-207.	2.8	6
52	An initial estimate of the global distribution of diurnal variation in sea surface salinity. Journal of Geophysical Research: Oceans, 2015, 120, 3211-3228.	1.0	6
53	The impact of black carbon emissions from projected Arctic shipping on regional ice transport. Climate Dynamics, 2021, 57, 2453-2466.	1.7	6
54	Antarctic regional modelling of atmospheric, sea-ice and oceanic processes and validation with observations. Annals of Glaciology, 2000, 31, 348-352.	2.8	3

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55	Sea-ice model validation using submarine measurements of ice draft. Annals of Glaciology, 2000, 31, 307-312.	2.8	1
56	Impacts of Sea Ice Mushy Thermodynamics in the Antarctic on the Coupled Earth System. Geophysical Research Letters, 2021, 48, e2021GL094287.	1.5	1