

David A Bailey

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

5,807
citations

147801

31
h-index

161849

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). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	3.8	935
2	Abrupt onset of the Little Ice Age triggered by volcanism and sustained by sea-ice/ocean feedbacks. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	544
3	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part I: Mean states. <i>Ocean Modelling</i> , 2014, 73, 76-107.	2.4	320
4	Arctic Sea Ice in CMIP6. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086749.	4.0	304
5	Predicting 21st-century polar bear habitat distribution from global climate models. <i>Ecological Monographs</i> , 2009, 79, 25-58.	5.4	299
6	Improved Sea Ice Shortwave Radiation Physics in CCSM4: The Impact of Melt Ponds and Aerosols on Arctic Sea Ice. <i>Journal of Climate</i> , 2012, 25, 1413-1430.	3.2	299
7	A new synoptic scale resolving global climate simulation using the Community Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 1065-1094.	3.8	262
8	High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). <i>Geophysical Research Letters</i> , 2019, 46, 8329-8337.	4.0	249
9	Improvements in a half degree atmosphere/land version of the CCSM. <i>Climate Dynamics</i> , 2010, 34, 819-833.	3.8	212
10	Climate Sensitivity of the Community Climate System Model, Version 4. <i>Journal of Climate</i> , 2012, 25, 3053-3070.	3.2	190
11	Greenhouse gas mitigation can reduce sea-ice loss and increase polar bear persistence. <i>Nature</i> , 2010, 468, 955-958.	27.8	151
12	The Influence of Local Feedbacks and Northward Heat Transport on the Equilibrium Arctic Climate Response to Increased Greenhouse Gas Forcing. <i>Journal of Climate</i> , 2012, 25, 5433-5450.	3.2	133
13	Antarctic Sea Ice Area in CMIP6. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086729.	4.0	129
14	The Low-Resolution CCSM4. <i>Journal of Climate</i> , 2012, 25, 3993-4014.	3.2	125
15	Centennial-scale climate change from decadal-paced explosive volcanism: a coupled sea ice-ocean mechanism. <i>Climate Dynamics</i> , 2011, 37, 2373-2387.	3.8	118
16	Inherent sea ice predictability in the rapidly changing Arctic environment of the Community Climate System Model, version 3. <i>Climate Dynamics</i> , 2011, 36, 1239-1253.	3.8	116
17	Twenty-First-Century Arctic Climate Change in CCSM4. <i>Journal of Climate</i> , 2012, 25, 2696-2710.	3.2	112
18	The Connected Isotopic Water Cycle in the Community Earth System Model Version 1. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2547-2566.	3.8	111

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19	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.	3.8	104
20	Late-Twentieth-Century Simulation of Arctic Sea Ice and Ocean Properties in the CCSM4. <i>Journal of Climate</i> , 2012, 25, 1431-1452.	3.2	99
21	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part III: Hydrography and fluxes. <i>Ocean Modelling</i> , 2016, 100, 141-161.	2.4	81
22	Impact of sea ice on the marine iron cycle and phytoplankton productivity. <i>Biogeosciences</i> , 2014, 11, 4713-4731.	3.3	72
23	Changes in Arctic clouds during intervals of rapid sea ice loss. <i>Climate Dynamics</i> , 2011, 36, 1475-1489.	3.8	68
24	An assessment of Southern Ocean water masses and sea ice during 1988-2007 in a suite of interannual CORE-II simulations. <i>Ocean Modelling</i> , 2015, 94, 67-94.	2.4	68
25	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part I: Sea ice and solid freshwater. <i>Ocean Modelling</i> , 2016, 99, 110-132.	2.4	64
26	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part II: Liquid freshwater. <i>Ocean Modelling</i> , 2016, 99, 86-109.	2.4	58
27	Formation and pathways of North Atlantic Deep Water in a coupled ice-ocean model of the Arctic-North Atlantic Oceans. <i>Climate Dynamics</i> , 2005, 25, 497-516.	3.8	49
28	Thicker Clouds and Accelerated Arctic Sea Ice Decline: The Atmosphere-Sea Ice Interactions in Spring. <i>Geophysical Research Letters</i> , 2019, 46, 6980-6989.	4.0	47
29	An inter-comparison of the mass budget of the Arctic sea ice in CMIP6 models. <i>Cryosphere</i> , 2021, 15, 951-982.	3.9	42
30	Snow-albedo feedback and the spring transition in a regional climate system model: Influence of land surface model. <i>Journal of Geophysical Research</i> , 1998, 103, 29037-29049.	3.3	39
31	True to Milankovitch: Glacial Inception in the New Community Climate System Model. <i>Journal of Climate</i> , 2012, 25, 2226-2239.	3.2	38
32	The Role of Natural Versus Forced Change in Future Rapid Summer Arctic Ice Loss. <i>Geophysical Monograph Series</i> , 0, , 133-150.	0.1	34
33	Warm Arctic, Increased Winter Sea Ice Growth?. <i>Geophysical Research Letters</i> , 2018, 45, 12,922.	4.0	34
34	Arctic and Antarctic Sea Ice Mean State in the Community Earth System Model Version 2 and the Influence of Atmospheric Chemistry. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015934.	2.6	29
35	Development of an Antarctic Regional Climate System Model. Part I: Sea Ice and Large-Scale Circulation. <i>Journal of Climate</i> , 2000, 13, 1337-1350.	3.2	26
36	CO ₂ 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.	3.8	25

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37	Relationship between synoptic forcing and polynya formation in the Cosmonaut Sea: 1. Polynya climatology. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	22
38	Development of an Antarctic Regional Climate System Model. Part II: Station Validation and Surface Energy Balance. <i>Journal of Climate</i> , 2000, 13, 1351-1361.	3.2	20
39	Satellite observation and climate system model simulation of the St. Lawrence Island polynya. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 49, 277.	1.7	18
40	Impact of a New Sea Ice Thermodynamic Formulation in the CESM2 Sea Ice Component. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002154.	3.8	17
41	Relationship between synoptic forcing and polynya formation in the Cosmonaut Sea: 2. Regional climate model simulations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	15
42	Changing Seasonal Predictability of Arctic Summer Sea Ice Area in a Warming Climate. <i>Journal of Climate</i> , 2019, 32, 4963-4979.	3.2	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 Atmosphere–Ocean–Ice Processes. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002143.	3.8	13
44	Snow on Arctic Sea Ice in a Warming Climate as Simulated in CESM. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016308.	2.6	13
45	Arctic shipping guidance from the CMIP6 ensemble on operational and infrastructural timescales. <i>Climatic Change</i> , 2021, 167, 1.	3.6	13
46	Impact of ocean circulation on regional polar climate simulations using the Arctic Region Climate System Model. <i>Annals of Glaciology</i> , 1997, 25, 203-207.	1.4	10
47	Quality control for community-based sea-ice model development. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170344.	3.4	9
48	E3SMv0–HiLAT: A Modified Climate System Model Targeted for the Study of High-Latitude Processes. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2814-2843.	3.8	9
49	Less Surface Sea Ice Melt in the CESM2 Improves Arctic Sea Ice Simulation With Minimal Non-Polar Climate Impacts. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	9
50	Improved parallel performance of the CICE model in CESM1. <i>International Journal of High Performance Computing Applications</i> , 2015, 29, 154-165.	3.7	7
51	Impact of ocean circulation on regional polar climate simulations using the Arctic Region Climate System Model. <i>Annals of Glaciology</i> , 1997, 25, 203-207.	1.4	6
52	An initial estimate of the global distribution of diurnal variation in sea surface salinity. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 3211-3228.	2.6	6
53	The impact of black carbon emissions from projected Arctic shipping on regional ice transport. <i>Climate Dynamics</i> , 2021, 57, 2453-2466.	3.8	6
54	Antarctic regional modelling of atmospheric, sea-ice and oceanic processes and validation with observations. <i>Annals of Glaciology</i> , 2000, 31, 348-352.	1.4	3

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55	Sea-ice model validation using submarine measurements of ice draft. <i>Annals of Glaciology</i> , 2000, 31, 307-312.	1.4	1
56	Impacts of Sea Ice Mushy Thermodynamics in the Antarctic on the Coupled Earth System. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094287.	4.0	1