# David A Bailey

List of Publications by Year
in descending order

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Snow on Arctic Sea Ice in a Warming Climate as Simulated in CESM. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016308. | 1.0 | 13 |
| 5 | An inter-comparison of the mass budget of the Arctic sea ice in CMIP6 models. Cryosphere, 2021, 15, 951-982. | 1.5 | 42 |
| 6 | The impact of black carbon emissions from projected Arctic shipping on regional ice transport. Climate Dynamics, 2021, 57, 2453-2466. | 1.7 | 6 |
| 7 | Arctic shipping guidance from the CMIP6 ensemble on operational and infrastructural timescales. Climatic Change, 2021, 167, 1. | 1.7 | 13 |
| 8 | Impacts of Sea Ice Mushy Thermodynamics in the Antarctic on the Coupled Earth System. Geophysical Research Letters, 2021, 48, e2021GL094287. | 1.5 | 1 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | The Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001916. | 1.3 | 935 |
| 13 | Antarctic Sea Ice Area in CMIP6. Geophysical Research Letters, 2020, 47, e2019GL086729. | 1.5 | 129 |
| 14 | Arctic Sea Ice in CMIP6. Geophysical Research Letters, 2020, 47, e2019GL086749. | 1.5 | 304 |
| 15 | 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 |
| 16 | High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). Geophysical Research Letters, 2019, 46, 8329-8337. | 1.5 | 249 |
| 17 | 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 |
| 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 | 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 |
| 20 | Changing Seasonal Predictability of Arctic Summer Sea Ice Area in a Warming Climate. Journal of Climate, 2019, 32, 4963-4979. | 1.2 | 14 |
| 21 | Quality control for community-based sea-ice model development. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170344. | 1.6 | 9 |
| 22 | Warm Arctic, Increased Winter Sea Ice Growth?. Geophysical Research Letters, 2018, 45, 12,922. | 1.5 | 34 |
| 23 | 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 |
| 24 | 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 |
| 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 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 |
| 27 | Improved parallel performance of the CICE model in CESM1. International Journal of High Performance Computing Applications, 2015, 29, 154-165. | 2.4 | 7 |
| 28 | 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 |
| 29 | Impact of sea ice on the marine iron cycle and phytoplankton productivity. Biogeosciences, 2014, 11, 4713-4731. | 1.3 | 72 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | True to Milankovitch: Glacial Inception in the New Community Climate System Model. Journal of Climate, 2012, 25, 2226-2239. | 1.2 | 38 |
| 34 | Late-Twentieth-Century Simulation of Arctic Sea Ice and Ocean Properties in the CCSM4. Journal of Climate, 2012, 25, 1431-1452. | 1.2 | 99 |
| 35 | Climate Sensitivity of the Community Climate System Model, Version 4. Journal of Climate, 2012, 25, 3053-3070. | 1.2 | 190 |
| 36 | The Low-Resolution CCSM4. Journal of Climate, 2012, 25, 3993-4014. | 1.2 | 125 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Twenty-First-Century Arctic Climate Change in CCSM4. Journal of Climate, 2012, 25, 2696-2710. | 1.2 | 112 |
| 39 | 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 |
| 40 | 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 |
| 41 | Changes in Arctic clouds during intervals of rapid sea ice loss. Climate Dynamics, 2011, 36, 1475-1489. | 1.7 | 68 |
| 42 | Centennial-scale climate change from decadally-paced explosive volcanism: a coupled sea ice-ocean mechanism. Climate Dynamics, 2011, 37, 2373-2387. | 1.7 | 118 |
| 43 | Improvements in a half degree atmosphere/land version of the CCSM. Climate Dynamics, 2010, 34, 819-833. | 1.7 | 212 |
| 44 | Greenhouse gas mitigation can reduce sea-ice loss and increase polar bear persistence. Nature, 2010, 468, 955-958. | 13.7 | 151 |
| 45 | Predicting 21stâ€century polar bear habitat distribution from global climate models. Ecological Monographs, 2009, 79, 25-58. | 2.4 | 299 |
| 46 | 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 |
| 47 | Relationship between synoptic forcing and polynya formation in the Cosmonaut Sea: 1. Polynya climatology. Journal of Geophysical Research, 2004, 109, . | 3.3 | 22 |
| 48 | 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 |
| 49 | Antarctic regional modelling of atmospheric, sea-ice and oceanic processes and validation with observations. Annals of Glaciology, 2000, 31, 348-352. | 2.8 | 3 |
| 50 | 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 |
| 51 | 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 |
| 52 | Sea-ice model validation using submarine measurements of ice draft. Annals of Glaciology, 2000, 31, 307-312. | 2.8 | 1 |
| 53 | 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 |
| 54 | 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 |

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| 55 | 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 |
| 56 | The Role of Natural Versus Forced Change in Future Rapid Summer Arctic Ice Loss. Geophysical Monograph Series, 0, , 133-150. | 0.1 | 34 |