# Bette L Ottoâ€bliesner

List of Publications by Year
in descending order



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|---|---|---|---|
| 211 papers | 25,350 citations | 5896 81 h-index | 7744 150 g-index |
| 284 all docs | 284 docs citations | 284 times ranked | 17366 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Global warming preceded by increasing carbon dioxide concentrations during the last deglaciation. Nature, 2012, 484, 49-54. | 27.8 | 1,141 |
| 2 | Results of PMIP2 coupled simulations of the Mid-Holocene and Last Glacial Maximum â€“ Part 1: experiments and large-scale features. Climate of the Past, 2007, 3, 261-277. | 3.4 | 1,089 |
| 3 | The Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001916. | 3.8 | 935 |
| 4 | Transient Simulation of Last Deglaciation with a New Mechanism for BÃ¸lling-AllerÃ¸d Warming. Science, 2009, 325, 310-314. | 12.6 | 843 |
| 5 | Simulating Arctic Climate Warmth and Icefield Retreat in the Last Interglaciation. Science, 2006, 311, 1751-1753. | 12.6 | 832 |
| 6 | Evaluation of climate models using palaeoclimatic data. Nature Climate Change, 2012, 2, 417-424. | 18.8 | 779 |
| 7 | Recent Warming Reverses Long-Term Arctic Cooling. Science, 2009, 325, 1236-1239. | 12.6 | 585 |
| 8 | Last Glacial Maximum and Holocene Climate in CCSM3. Journal of Climate, 2006, 19, 2526-2544. | 3.2 | 518 |
| 9 | Chinese cave records and the East Asia Summer Monsoon. Quaternary Science Reviews, 2014, 83, 115-128. | 3.0 | 452 |
| 10 | Global climate evolution during the last deglaciation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1134-42. | 7.1 | 422 |
| 11 | Paleoclimatic Evidence for Future Ice-Sheet Instability and Rapid Sea-Level Rise. Science, 2006, 311, 1747-1750. | 12.6 | 400 |
| 12 | Climate Variability and Change since 850 CE: An Ensemble Approach with the Community Earth System Model. Bulletin of the American Meteorological Society, 2016, 97, 735-754. | 3.3 | 382 |
| 13 | The Sensitivity of the African-Asian Monsoonal Climate to Orbital Parameter Changes for 9000 Years B.P. in a Low-Resolution General Circulation Model. Journals of the Atmospheric Sciences, 1982, 39, 1177-1188. | 1.7 | 363 |
| 14 | Results of PMIP2 coupled simulations of the Mid-Holocene and Last Glacial Maximum â€“ Part 2: feedbacks with emphasis on the location of the ITCZ and mid- and high latitudes heat budget. Climate of the Past, 2007, 3, 279-296. | 3.4 | 349 |
| 15 | Climate forcing reconstructions for use in PMIP simulations of the last millennium (v1.0). Geoscientific Model Development, 2011, 4, 33-45. | 3.6 | 349 |
| 16 | The Holocene temperature conundrum. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3501-5. | 7.1 | 344 |
| 17 | The time-transgressive termination of the African Humid Period. Nature Geoscience, 2015, 8, 140-144. | 12.9 | 344 |
| 18 | Solar influence on climate during the past millennium: Results from transient simulations with the NCAR Climate System Model. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3713-3718. | 7.1 | 323 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Past and future global transformation of terrestrial ecosystems under climate change. Science, 2018, 361, 920-923. | 12.6 | 307 |
| 20 | Large-scale features of Pliocene climate: results from the Pliocene Model Intercomparison Project. Climate of the Past, 2013, 9, 191-209. | 3.4 | 289 |
| 21 | Ice-shelf collapse from subsurface warming as a trigger for Heinrich events. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13415-13419. | 7.1 | 278 |
| 22 | Variation of East Asian monsoon precipitation during the past 21 k.y. and potential CO2 forcing. Geology, 2013, 41, 1023-1026. | 4.4 | 271 |
| 23 | Pliocene and Eocene provide best analogs for near-future climates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13288-13293. | 7.1 | 271 |
| 24 | Improved dust representation in the Community Atmosphere Model. Journal of Advances in Modeling Earth Systems, 2014, 6, 541-570. | 3.8 | 253 |
| 25 | Past climates inform our future. Science, 2020, 370, . | 12.6 | 253 |
| 26 | Noâ€analog climates and shifting realized niches during the late quaternary: implications for 21stâ€century predictions by species distribution models. Global Change Biology, 2012, 18, 1698-1713. | 9.5 | 243 |
| 27 | Past and future polar amplification of climate change: climate model intercomparisons and ice-core constraints. Climate Dynamics, 2006, 26, 513-529. | 3.8 | 240 |
| 28 | Climate forcing reconstructions for use in PMIP simulations of the Last Millennium (v1.1). Geoscientific Model Development, 2012, 5, 185-191. | 3.6 | 238 |
| 29 | A Simulation of the Last Glacial Maximum climate using the NCAR-CCSM. Climate Dynamics, 2003, 20, 127-151. | 3.8 | 236 |
| 30 | Evolution and forcing mechanisms of El NiÃ±o over the past 21,000 years. Nature, 2014, 515, 550-553. | 27.8 | 228 |
| 31 | Greenland temperature response to climate forcing during the last deglaciation. Science, 2014, 345, 1177-1180. | 12.6 | 226 |
| 32 | Global monsoons in the mid-Holocene and oceanic feedback. Climate Dynamics, 2004, 22, 157-182. | 3.8 | 203 |
| 33 | EPICA Dome C record of glacial and interglacial intensities. Quaternary Science Reviews, 2010, 29, 113-128. | 3.0 | 202 |
| 34 | Last Millennium Climate and Its Variability in CCSM4. Journal of Climate, 2013, 26, 1085-1111. | 3.2 | 198 |
| 35 | Transient simulations of Holocene atmospheric carbon dioxide and terrestrial carbon since the Last Glacial Maximum. Global Biogeochemical Cycles, 2004, 18, n/a-n/a. | 4.9 | 197 |
| 36 | The modern and glacial overturning circulation in the Atlantic ocean in PMIP coupled model simulations. Climate of the Past, 2007, 3, 51-64. | 3.4 | 192 |

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|---|---|---|---|
| 37 | Northern Hemisphere forcing of Southern Hemisphere climate during the last deglaciation. Nature, 2013, 494, 81-85. | 27.8 | 186 |
| 38 | Factors that affect the amplitude of El Nino in global coupled climate models. Climate Dynamics, 2001, 17, 515-526. | 3.8 | 182 |
| 39 | Coupled Climate Simulation of the Evolution of Global Monsoons in the Holocene*. Journal of Climate, 2003, 16, 2472-2490. | 3.2 | 179 |
| 40 | Mid-Holocene climates of the Americas: a dynamical response to changed seasonality. Climate Dynamics, 2003, 20, 663-688. | 3.8 | 172 |
| 41 | Last Glacial Maximum ocean thermohaline circulation: PMIP2 model intercomparisons and data constraints. Geophysical Research Letters, 2007, 34, . | 4.0 | 172 |
| 42 | Coherent changes of southeastern equatorial and northern African rainfall during the last deglaciation. Science, 2014, 346, 1223-1227. | 12.6 | 172 |
| 43 | Assessing confidence in Pliocene sea surface temperatures to evaluate predictive models. Nature Climate Change, 2012, 2, 365-371. | 18.8 | 171 |
| 44 | The PMIP4 contribution to CMIP6 â€“ Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. Geoscientific Model Development, 2017, 10, 3979-4003. | 3.6 | 171 |
| 45 | Last Glacial Maximum temperatures over the North Atlantic, Europe and western Siberia: a comparison between PMIP models, MARGO seaâ€“surface temperatures and pollen-based reconstructions. Quaternary Science Reviews, 2006, 25, 2082-2102. | 3.0 | 170 |
| 46 | Pliocene Model Intercomparison Project (PlioMIP): experimental design and boundary conditions (Experiment 1). Geoscientific Model Development, 2010, 3, 227-242. | 3.6 | 168 |
| 47 | Vegetation-induced warming of high-latitude regions during the Late Cretaceous period. Nature, 1997, 385, 804-807. | 27.8 | 167 |
| 48 | Palaeoclimate constraints on the impact of 2 Â°C anthropogenic warming and beyond. Nature Geoscience, 2018, 11, 474-485. | 12.9 | 166 |
| 49 | The PMIP4 contribution to CMIP6 â€“ Part 1: Overview and over-arching analysis plan. Geoscientific Model Development, 2018, 11, 1033-1057. | 3.6 | 164 |
| 50 | PaleoView: a tool for generating continuous climate projections spanning the last 21 000 years at regional and global scales. Ecography, 2017, 40, 1348-1358. | 4.5 | 163 |
| 51 | Sensitivity to Glacial Forcing in the CCSM4. Journal of Climate, 2013, 26, 1901-1925. | 3.2 | 153 |
| 52 | Pliocene Model Intercomparison Project (PlioMIP): experimental design and boundary conditions (Experiment 2). Geoscientific Model Development, 2011, 4, 571-577. | 3.6 | 151 |
| 53 | Climate response to large, highâ€latitude and lowâ€latitude volcanic eruptions in the Community Climate System Model. Journal of Geophysical Research, 2009, 114, . | 3.3 | 147 |
| 54 | Climatic impacts of fresh water hosing under Last Glacial Maximum conditions: a multi-model study. Climate of the Past, 2013, 9, 935-953. | 3.4 | 146 |

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|---|---|---|---|
| 55 | Temporal and spatial structure of multi-millennial temperature changes at high latitudes during the Last Interglacial. Quaternary Science Reviews, 2014, 103, 116-133. | 3.0 | 146 |
| 56 | Influence of Bering Strait flow and North Atlantic circulation on glacial sea-level changes. Nature Geoscience, 2010, 3, 118-121. | 12.9 | 140 |
| 57 | The role of ocean thermal expansion in Last Interglacial sea level rise. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 140 |
| 58 | â€œEl NiÃ±o Likeâ€•Hydroclimate Responses to Last Millennium Volcanic Eruptions. Journal of Climate, 2016, 29, 2907-2921. | 3.2 | 138 |
| 59 | The PMIP4 contribution to CMIP6 â€“ Part 4: Scientific objectives and experimental design of the PMIP4-CMIP6 Last Glacial Maximum experiments and PMIP4 sensitivity experiments. Geoscientific Model Development, 2017, 10, 4035-4055. | 3.6 | 137 |
| 60 | Causes of early Holocene desertification in arid central Asia. Climate Dynamics, 2012, 38, 1577-1591. | 3.8 | 136 |
| 61 | A multi-model assessment of last interglacial temperatures. Climate of the Past, 2013, 9, 699-717. | 3.4 | 134 |
| 62 | Challenges in quantifying Pliocene terrestrial warming revealed by dataâ€“model discord. Nature Climate Change, 2013, 3, 969-974. | 18.8 | 132 |
| 63 | The Community Climate System Model. Bulletin of the American Meteorological Society, 2001, 82, 2357-2376. | 3.3 | 131 |
| 64 | A comparison of PMIP2 model simulations and the MARGO proxy reconstruction for tropical sea surface temperatures at last glacial maximum. Climate Dynamics, 2009, 32, 799-815. | 3.8 | 126 |
| 65 | The sensitivity of the climate response to the magnitude and location of freshwater forcing: last glacial maximum experiments. Quaternary Science Reviews, 2010, 29, 56-73. | 3.0 | 124 |
| 66 | Sea Surface Temperature of the mid-Piacenzian Ocean: A Data-Model Comparison. Scientific Reports, 2013, 3, 2013. | 3.3 | 124 |
| 67 | How warm was the last interglacial? New modelâ€“data comparisons. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20130097. | 3.4 | 124 |
| 68 | The Pliocene Model Intercomparison Project (PlioMIP) Phase 2: scientific objectives and experimental design. Climate of the Past, 2016, 12, 663-675. | 3.4 | 119 |
| 69 | Centennial-scale climate change from decadally-paced explosive volcanism: a coupled sea ice-ocean mechanism. Climate Dynamics, 2011, 37, 2373-2387. | 3.8 | 118 |
| 70 | ENSO's Changing Influence on Temperature, Precipitation, and Wildfire in a Warming Climate. Geophysical Research Letters, 2018, 45, 9216-9225. | 4.0 | 118 |
| 71 | The Connected Isotopic Water Cycle in the Community Earth System Model Version 1. Journal of Advances in Modeling Earth Systems, 2019, 11, 2547-2566. | 3.8 | 111 |
| 72 | The Continuum of Hydroclimate Variability in Western North America during the Last Millennium. Journal of Climate, 2013, 26, 5863-5878. | 3.2 | 106 |

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|---|---|---|---|
| 73 | Twelve thousand years of dust: the Holocene global dust cycle constrained by natural archives. Climate of the Past, 2015, 11, 869-903. | 3.4 | 104 |
| 74 | A multi-model analysis of the role of the ocean on the African and Indian monsoon during the mid-Holocene. Climate Dynamics, 2005, 25, 777-800. | 3.8 | 103 |
| 75 | Role of eruption season in reconciling model and proxy responses to tropical volcanism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1822-1826. | 7.1 | 101 |
| 76 | Using paleo-archives to safeguard biodiversity under climate change. Science, 2020, 369, . | 12.6 | 98 |
| 77 | Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments. Geoscientific Model Development, 2015, 8, 3621-3637. | 3.6 | 95 |
| 78 | Large-scale features and evaluation of the PMIP4-CMIP6 <i>midHolocene</i> simulations. Climate of the Past, 2020, 16, 1847-1872. | 3.4 | 94 |
| 79 | The Pliocene Model Intercomparison Project Phase 2: large-scale climate features and climate sensitivity. Climate of the Past, 2020, 16, 2095-2123. | 3.4 | 93 |
| 80 | The DeepMIP contribution to PMIP4: experimental design for model simulations of the EECO, PETM, and pre-PETM (version 1.0). Geoscientific Model Development, 2017, 10, 889-901. | 3.6 | 90 |
| 81 | Younger Dryas cooling and the Greenland climate response to CO <sub>2</sub>. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11101-11104. | 7.1 | 85 |
| 82 | A major advance of tropical Andean glaciers during the Antarctic cold reversal. Nature, 2014, 513, 224-228. | 27.8 | 84 |
| 83 | Modern and Last Glacial Maximum eolian sedimentation patterns in the Atlantic Ocean interpreted from sediment iron oxide content. Paleoceanography, 1995, 10, 493-507. | 3.0 | 83 |
| 84 | The response of the Walker circulation to Last Glacial Maximum forcing: Implications for detection in proxies. Paleoceanography, 2011, 26, . | 3.0 | 77 |
| 85 | The climate response of the Indoâ€Pacific warm pool to glacial sea level. Paleoceanography, 2016, 31, 866-894. | 3.0 | 76 |
| 86 | Large-scale features of Last Interglacial climate: results from evaluating the <i>lig127k</i> simulations for the Coupled Model Intercomparison Project (CMIP6)â€“Paleoclimate Modeling Intercomparison Project (PMIP4). Climate of the Past, 2021, 17, 63-94. | 3.4 | 76 |
| 87 | Role of the Bering Strait on the hysteresis of the ocean conveyor belt circulation and glacial climate stability. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6417-6422. | 7.1 | 75 |
| 88 | El NiÃ±o/La NiÃ±a and Sahel precipitation during the Middle Holocene. Geophysical Research Letters, 1999, 26, 87-90. | 4.0 | 74 |
| 89 | Glacial changes in tropical climate amplified by the Indian Ocean. Science Advances, 2018, 4, eaat9658. | 10.3 | 74 |
| 90 | Climate Sensitivity of Moderate- and Low-Resolution Versions of CCSM3 to Preindustrial Forcings. Journal of Climate, 2006, 19, 2567-2583. | 3.2 | 73 |

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|---|---|---|---|
| 91 | Regional and global forcing of glacier retreat during the last deglaciation. Nature Communications, 2015, 6, 8059. | 12.8 | 71 |
| 92 | Reduced ENSO variability at the LGM revealed by an isotopeâ€enabled Earth system model. Geophysical Research Letters, 2017, 44, 6984-6992. | 4.0 | 71 |
| 93 | High climate sensitivity in CMIP6 model not supported by paleoclimate. Nature Climate Change, 2020, 10, 378-379. | 18.8 | 71 |
| 94 | DeepMIP: model intercomparison of early Eocene climatic optimum (EECO) large-scale climate features and comparison with proxy data. Climate of the Past, 2021, 17, 203-227. | 3.4 | 71 |
| 95 | Response of Thermohaline Circulation to Freshwater Forcing under Present-Day and LGM Conditions. Journal of Climate, 2008, 21, 2239-2258. | 3.2 | 70 |
| 96 | Persistent Quaternary climate refugia are hospices for biodiversity in the Anthropocene. Nature Climate Change, 2020, 10, 244-248. | 18.8 | 70 |
| 97 | Mid-Holocene NAO: A PMIP2 model intercomparison. Geophysical Research Letters, 2005, 32, . | 4.0 | 69 |
| 98 | Pliocene Warmth Consistent With Greenhouse Gas Forcing. Geophysical Research Letters, 2019, 46, 9136-9144. | 4.0 | 69 |
| 99 | Hydroclimate footprint of pan-Asian monsoon water isotope during the last deglaciation. Science Advances, 2021, 7, . | 10.3 | 66 |
| 100 | Simulating the mid-Pliocene Warm Period with the CCSM4 model. Geoscientific Model Development, 2013, 6, 549-561. | 3.6 | 62 |
| 101 | Stochastic Atmospheric Forcing as a Cause of Greenland Climate Transitions. Journal of Climate, 2015, 28, 7741-7763. | 3.2 | 62 |
| 102 | Abrupt BÃlling warming and ice saddle collapse contributions to the Meltwater Pulse 1a rapid sea level rise. Geophysical Research Letters, 2016, 43, 9130-9137. | 4.0 | 62 |
| 103 | Antarctic surface temperature and elevation during the Last Glacial Maximum. Science, 2021, 372, 1097-1101. | 12.6 | 61 |
| 104 | Mid-Pliocene East Asian monsoon climate simulated in the PlioMIP. Climate of the Past, 2013, 9, 2085-2099. | 3.4 | 60 |
| 105 | Tropical Pacific Variability in the NCAR Climate System Model. Journal of Climate, 2001, 14, 3587-3607. | 3.2 | 59 |
| 106 | Impact of abrupt deglacial climate change on tropical Atlantic subsurface temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14348-14352. | 7.1 | 59 |
| 107 | Evaluating the dominant components of warming in Pliocene climate simulations. Climate of the Past, 2014, 10, 79-90. | 3.4 | 58 |
| 108 | The role of North Brazil Current transport in the paleoclimate of the Brazilian Nordeste margin and paleoceanography of the western tropical Atlantic during the late Quaternary. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 415, 3-13. | 2.3 | 58 |

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|---|---|---|---|
| 109 | Modeling the climatic drivers of spatial patterns in vegetation composition since the Last Glacial Maximum. Ecography, 2013, 36, 460-473. | 4.5 | 57 |
| 110 | Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models. Climate of the Past, 2020, 16, 1777-1805. | 3.4 | 56 |
| 111 | Water isotopes during the Last Glacial Maximum: New general circulation model calculations. Journal of Geophysical Research, 2008, 113, . | 3.3 | 54 |
| 112 | Amplified North Atlantic warming in the late Pliocene by changes in Arctic gateways. Geophysical Research Letters, 2017, 44, 957-964. | 4.0 | 53 |
| 113 | Lessons from a high-CO<sub>2</sub> world: an ocean view from â€‰â¼â€‰3Âmillion years ago. Climate of the Past, 2020, 16, 1599-1615. | 3.4 | 52 |
| 114 | Mid-pliocene Atlantic Meridional Overturning Circulation not unlike modern. Climate of the Past, 2013, 9, 1495-1504. | 3.4 | 50 |
| 115 | Interpreting Precessionâ€Driven Î´<sup>18</sup>O Variability in the South Asian Monsoon Region. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5927-5946. | 3.3 | 49 |
| 116 | The cause of Late Cretaceous cooling: A multimodel-proxy comparison. Geology, 2016, 44, 963-966. | 4.4 | 48 |
| 117 | Tropical cooling at the last glacial maximum and extratropical ocean ventilation1. Geophysical Research Letters, 2002, 29, 48-1-48-4. | 4.0 | 47 |
| 118 | The ice age ecologist: testing methods for reserve prioritization during the last global warming. Global Ecology and Biogeography, 2013, 22, 289-301. | 5.8 | 47 |
| 119 | Climate Variability, Volcanic Forcing, and Last Millennium Hydroclimate Extremes. Journal of Climate, 2018, 31, 4309-4327. | 3.2 | 47 |
| 120 | What can Palaeoclimate Modelling do for you?. Earth Systems and Environment, 2019, 3, 1-18. | 6.2 | 47 |
| 121 | Agreement between reconstructed and modeled boreal precipitation of the Last Interglacial. Science Advances, 2019, 5, eaax7047. | 10.3 | 46 |
| 122 | Model sensitivity to North Atlantic freshwater forcing at 8.2 ka. Climate of the Past, 2013, 9, 955-968. | 3.4 | 44 |
| 123 | Twenty-first century hydroclimate: A continually changing baseline, with more frequent extremes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2108124119. | 7.1 | 42 |
| 124 | Evaluation of coupled oceanâ€“atmosphere simulations of the mid-Holocene using palaeovegetation data from the northern hemisphere extratropics. Climate Dynamics, 2008, 31, 871-890. | 3.8 | 41 |
| 125 | Equilibration and variability in a Last Glacial Maximum climate simulation with CCSM3. Geophysical Research Letters, 2009, 36, . | 4.0 | 41 |
| 126 | Rapid (10-yr) recovery of terrestrial productivity in a simulation study of the terminal Cretaceous impact event. Earth and Planetary Science Letters, 2001, 192, 137-144. | 4.4 | 40 |

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|---|---|---|---|
| 127 | A numerical study of the climate response to lowered Mediterranean Sea level during the Messinian Salinity Crisis. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 279, 41-59. | 2.3 | 40 |
| 128 | Causes and Climatic Consequences of the Impact Winter at the Cretaceousâ€Paleogene Boundary. Geophysical Research Letters, 2020, 47, e60121. | 4.0 | 40 |
| 129 | Carbon isotopes in the ocean model of the Community Earth System Model (CESM1). Geoscientific Model Development, 2015, 8, 2419-2434. | 3.6 | 39 |
| 130 | True to Milankovitch: Glacial Inception in the New Community Climate System Model. Journal of Climate, 2012, 25, 2226-2239. | 3.2 | 38 |
| 131 | Second phase of paleoclimate modelling intercomparison project. Eos, 2005, 86, 264. | 0.1 | 36 |
| 132 | Sensitivity of the Northern Hemisphere climate system to extreme changes in Holocene Arctic sea ice. Quaternary Science Reviews, 2003, 22, 645-658. | 3.0 | 35 |
| 133 | Model support for forcing of the 8.2Âka event by meltwater from the Hudson Bay ice dome. Climate Dynamics, 2013, 41, 2855-2873. | 3.8 | 35 |
| 134 | LGM permafrost distribution: how well can the latest PMIP multi-model ensembles perform reconstruction?. Climate of the Past, 2013, 9, 1697-1714. | 3.4 | 35 |
| 135 | Using results from the PlioMIP ensemble to investigate the Greenland Ice Sheet during the mid-Pliocene Warm Period. Climate of the Past, 2015, 11, 403-424. | 3.4 | 35 |
| 136 | Assessment of Equilibrium Climate Sensitivity of the Community Earth System Model Version 2 Through Simulation of the Last Glacial Maximum. Geophysical Research Letters, 2021, 48, e2020GL091220. | 4.0 | 34 |
| 137 | Tropical mountains and coal formation: A climate model study of the Westphalian (306 MA). Geophysical Research Letters, 1993, 20, 1947-1950. | 4.0 | 33 |
| 138 | PALEOCLIMATE: Toward Integrated Reconstruction of Past Climates. Science, 2003, 300, 589-590. | 12.6 | 33 |
| 139 | The role of meltwater-induced subsurface ocean warming in regulating the Atlantic meridional overturning in glacial climate simulations. Climate Dynamics, 2011, 37, 1517-1532. | 3.8 | 33 |
| 140 | Towards a quantitative understanding of millennial-scale Antarctic warming events. Quaternary Science Reviews, 2010, 29, 74-85. | 3.0 | 31 |
| 141 | Amplified Late Pliocene terrestrial warmth in northern high latitudes from greater radiative forcing and closed Arctic Ocean gateways. Earth and Planetary Science Letters, 2017, 466, 129-138. | 4.4 | 31 |
| 142 | Increased Climate Response and Earth System Sensitivity From CCSM4 to CESM2 in Midâ€Pliocene Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002033. | 3.8 | 30 |
| 143 | Simulation of early Eocene water isotopes using an Earth system model and its implication for past climate reconstruction. Earth and Planetary Science Letters, 2020, 537, 116164. | 4.4 | 30 |
| 144 | Modeling and Data Syntheses of Past Climates: Paleoclimate Modelling Intercomparison Project Phase II Workshop; Estes Park, Colorado, 15â€“19 September 2008. Eos, 2009, 90, 93. | 0.1 | 29 |

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|---|---|---|---|
| 145 | The amplifying influence of increased ocean stratification on a future year without a summer. Nature Communications, 2017, 8, 1236. | 12.8 | 29 |
| 146 | A multi-model CMIP6-PMIP4 study of Arctic sea ice at 127â€‰ka: sea ice data compilation and model differences. Climate of the Past, 2021, 17, 37-62. | 3.4 | 29 |
| 147 | Atlantic circulation change still uncertain. Nature Geoscience, 2022, 15, 165-167. | 12.9 | 29 |
| 148 | Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks. Nature Communications, 2022, 13, 1306. | 12.8 | 28 |
| 149 | Global-Scale Energy and Freshwater Balance in Glacial Climate: A Comparison of Three PMIP2 LGM Simulations. Journal of Climate, 2008, 21, 5008-5033. | 3.2 | 27 |
| 150 | The penultimate deglaciation: protocol for Paleoclimate Modelling Intercomparison Project (PMIP) phase 4 transient numerical simulations between 140 and 127â€‰ka, version 1.0. Geoscientific Model Development, 2019, 12, 3649-3685. | 3.6 | 26 |
| 151 | LGM Paleoclimate Constraints Inform Cloud Parameterizations and Equilibrium Climate Sensitivity in CESM2. Journal of Advances in Modeling Earth Systems, 2022, 14, . | 3.8 | 26 |
| 152 | Drier tropical and subtropical Southern Hemisphere in the mid-Pliocene Warm Period. Scientific Reports, 2020, 10, 13458. | 3.3 | 25 |
| 153 | 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. | 3.8 | 25 |
| 154 | Northern Hemisphere forcing of the last deglaciation in southern Patagonia. Geology, 2012, 40, 631-634. | 4.4 | 24 |
| 155 | The amplification of Arctic terrestrial surface temperatures by reduced sea-ice extent during the Pliocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 386, 59-67. | 2.3 | 24 |
| 156 | Volcanic Eruption Signatures in the Isotopeâ€Enabled Last Millennium Ensemble. Paleoceanography and Paleoclimatology, 2019, 34, 1534-1552. | 2.9 | 24 |
| 157 | Abrupt Heinrich Stadial 1 cooling missing in Greenland oxygen isotopes. Science Advances, 2021, 7, . | 10.3 | 24 |
| 158 | Understanding Diverse Model Projections of Future Extreme El NiÃ±o. Journal of Climate, 2021, 34, 449-464. | 3.2 | 24 |
| 159 | Global Hydrological Cycle Response to Rapid and Slow Global Warming. Journal of Climate, 2013, 26, 8781-8786. | 3.2 | 23 |
| 160 | Reconstruction of the South Atlantic Subtropical Dipole index for the past 12,000 years from surface temperature proxy. Scientific Reports, 2014, 4, 5291. | 3.3 | 22 |
| 161 | Evolution of moisture transport to the western U.S. during the last deglaciation. Geophysical Research Letters, 2016, 43, 3468-3477. | 4.0 | 22 |
| 162 | Evaluation of Arctic warming in mid-Pliocene climate simulations. Climate of the Past, 2020, 16, 2325-2341. | 3.4 | 21 |

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|---|---|---|---|
| 163 | Evaluating the large-scale hydrological cycle response within the Pliocene Model Intercomparison Project Phase 2 (PlioMIP2) ensemble. Climate of the Past, 2021, 17, 2537-2558. | 3.4 | 21 |
| 164 | Large sensitivity to freshwater forcing location in 8.2â€‰ka simulations. Paleoceanography, 2014, 29, 930-945. | 3.0 | 20 |
| 165 | North Atlantic subsurface temperature response controlled by effective freshwater input in â€œHeinrichâ€•events. Earth and Planetary Science Letters, 2020, 539, 116247. | 4.4 | 20 |
| 166 | Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2. Climate of the Past, 2021, 17, 529-543. | 3.4 | 20 |
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