Bette L Otto-bliesner

List of Publications by Citations

229 papers	19,083 citations	72 h-index	135 g-index
284 ext. papers	22,212 ext. citations	8.6 avg, IF	6.5 L-index

#	Paper	IF	Citations
229	Results of PMIP2 coupled simulations of the Mid-Holocene and Last Glacial Maximum Part 1: experiments and large-scale features. *Climate of the Past*, **2007**, 3, 261-277	3.9	974
228	Global warming preceded by increasing carbon dioxide concentrations during the last deglaciation. *Nature*, **2012**, 484, 49-54	50.4	862
227	Evaluation of climate models using palaeoclimatic data. *Nature Climate Change*, **2012**, 2, 417-424	21.4	654
226	Transient simulation of last deglaciation with a new mechanism for Bolling-Allerod warming. *Science*, **2009**, 325, 310-4	33.3	654
225	Simulating Arctic climate warmth and icefield retreat in the last interglaciation. *Science*, **2006**, 311, 1751-3	33.3	643
224	Recent warming reverses long-term arctic cooling. *Science*, **2009**, 325, 1236-9	33.3	515
223	Last Glacial Maximum and Holocene Climate in CCSM3. *Journal of Climate*, **2006**, 19, 2526-2544	4.4	453
222	The Community Earth System Model Version 2 (CESM2). *Journal of Advances in Modeling Earth Systems*, **2020**, 12, e2019MS001916	7.1	358
221	Chinese cave records and the East Asia Summer Monsoon. *Quaternary Science Reviews*, **2014**, 83, 115-128	3.9	344
220	Paleoclimatic evidence for future ice-sheet instability and rapid sea-level rise. *Science*, **2006**, 311, 1747-50	33.3	331
219	Global climate evolution during the last deglaciation. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E1134-42	11.5	321
218	Results of PMIP2 coupled simulations of the Mid-Holocene and Last Glacial Maximum 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	3.9	316
217	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	2.1	311
216	Climate forcing reconstructions for use in PMIP simulations of the last millennium (v1.0). *Geoscientific Model Development*, **2011**, 4, 33-45	6.3	297
215	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, 3713-8	11.5	282
214	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	6.1	270
213	The time-transgressive termination of the African Humid Period. *Nature Geoscience*, **2015**, 8, 140-144	18.3	251

212	Large-scale features of Pliocene climate: results from the Pliocene Model Intercomparison Project. *Climate of the Past*, **2013**, 9, 191-209	3.9	237
211	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, 13415-9	11.5	222
210	A Simulation of the Last Glacial Maximum climate using the NCAR-CCSM. *Climate Dynamics*, **2003**, 20, 127-151	4.2	215
209	Variation of East Asian monsoon precipitation during the past 21 k.y. and potential CO2 forcing. *Geology*, **2013**, 41, 1023-1026	5	213
208	Past and future polar amplification of climate change: climate model intercomparisons and ice-core constraints. *Climate Dynamics*, **2006**, 26, 513-529	4.2	205
207	Climate forcing reconstructions for use in PMIP simulations of the Last Millennium (v1.1). *Geoscientific Model Development*, **2012**, 5, 185-191	6.3	202
206	The Holocene temperature conundrum. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3501-5	11.5	198
205	No-analog climates and shifting realized niches during the late quaternary: implications for 21st-century predictions by species distribution models. *Global Change Biology*, **2012**, 18, 1698-1713	11.4	193
204	Improved dust representation in the Community Atmosphere Model. *Journal of Advances in Modeling Earth Systems*, **2014**, 6, 541-570	7.1	181
203	Past and future global transformation of terrestrial ecosystems under climate change. *Science*, **2018**, 361, 920-923	33.3	179
202	Global monsoons in the mid-Holocene and oceanic feedback. *Climate Dynamics*, **2004**, 22, 157-182	4.2	178
201	The modern and glacial overturning circulation in the Atlantic ocean in PMIP coupled model simulations. *Climate of the Past*, **2007**, 3, 51-64	3.9	175
200	EPICA Dome C record of glacial and interglacial intensities. *Quaternary Science Reviews*, **2010**, 29, 113-128	3.9	174
199	Transient simulations of Holocene atmospheric carbon dioxide and terrestrial carbon since the Last Glacial Maximum. *Global Biogeochemical Cycles*, **2004**, 18, n/a-n/a	5.9	174
198	Greenland temperature response to climate forcing during the last deglaciation. *Science*, **2014**, 345, 1177-80	33.3	171
197	Coupled Climate Simulation of the Evolution of Global Monsoons in the Holocene*. *Journal of Climate*, **2003**, 16, 2472-2490	4.4	169
196	Last Millennium Climate and Its Variability in CCSM4. *Journal of Climate*, **2013**, 26, 1085-1111	4.4	168
195	Evolution and forcing mechanisms of El Niño over the past 21,000 years. *Nature*, **2014**, 515, 550-3	50.4	165

194	Factors that affect the amplitude of El Nino in global coupled climate models. *Climate Dynamics*, **2001**, 17, 515-526	4.2	165
193	Last Glacial Maximum temperatures over the North Atlantic, Europe and western Siberia: a comparison between PMIP models, MARGO sea surface temperatures and pollen-based reconstructions. *Quaternary Science Reviews*, **2006**, 25, 2082-2102	3.9	157
192	Last Glacial Maximum ocean thermohaline circulation: PMIP2 model intercomparisons and data constraints. *Geophysical Research Letters*, **2007**, 34,	4.9	154
191	Mid-Holocene climates of the Americas: a dynamical response to changed seasonality. *Climate Dynamics*, **2003**, 20, 663-688	4.2	153
190	Vegetation-induced warming of high-latitude regions during the Late Cretaceous period. *Nature*, **1997**, 385, 804-807	50.4	148
189	Assessing confidence in Pliocene sea surface temperatures to evaluate predictive models. *Nature Climate Change*, **2012**, 2, 365-371	21.4	144
188	Pliocene Model Intercomparison Project (PlioMIP): experimental design and boundary conditions (Experiment 1). *Geoscientific Model Development*, **2010**, 3, 227-242	6.3	144
187	Northern Hemisphere forcing of Southern Hemisphere climate during the last deglaciation. *Nature*, **2013**, 494, 81-5	50.4	143
186	Coherent changes of southeastern equatorial and northern African rainfall during the last deglaciation. *Science*, **2014**, 346, 1223-7	33.3	138
185	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	11.5	137
184	Pliocene Model Intercomparison Project (PlioMIP): experimental design and boundary conditions (Experiment 2). *Geoscientific Model Development*, **2011**, 4, 571-577	6.3	134
183	Climatic impacts of fresh water hosing under Last Glacial Maximum conditions: a multi-model study. *Climate of the Past*, **2013**, 9, 935-953	3.9	132
182	Sensitivity to Glacial Forcing in the CCSM4. *Journal of Climate*, **2013**, 26, 1901-1925	4.4	129
181	The role of ocean thermal expansion in Last Interglacial sea level rise. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	122
180	A multi-model assessment of last interglacial temperatures. *Climate of the Past*, **2013**, 9, 699-717	3.9	120
179	Climate response to large, high-latitude and low-latitude volcanic eruptions in the Community Climate System Model. *Journal of Geophysical Research*, **2009**, 114,		119
178	Temporal and spatial structure of multi-millennial temperature changes at high latitudes during the Last Interglacial. *Quaternary Science Reviews*, **2014**, 103, 116-133	3.9	118
177	Influence of Bering Strait flow and North Atlantic circulation on glacial sea-level changes. *Nature Geoscience*, **2010**, 3, 118-121	18.3	117

176	Palaeoclimate constraints on the impact of 2 °C anthropogenic warming and beyond. *Nature Geoscience*, **2018**, 11, 474-485	18.3	115
175	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	4.2	112
174	The Community Climate System Model. *Bulletin of the American Meteorological Society*, **2001**, 82, 2357-2376	3.1	111
173	Challenges in quantifying Pliocene terrestrial warming revealed by data–model discord. *Nature Climate Change*, **2013**, 3, 969-974	21.4	110
172	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	3.9	110
171	Sea surface temperature of the mid-Piacenzian ocean: a data-model comparison. *Scientific Reports*, **2013**, 3, 2013	4.9	108
170	El Niño–Like Hydroclimate Responses to Last Millennium Volcanic Eruptions. *Journal of Climate*, **2016**, 29, 2907-2921	4.4	107
169	The PMIP4 contribution to CMIP6 – Part 1: Overview and over-arching analysis plan. *Geoscientific Model Development*, **2018**, 11, 1033-1057	6.3	106
168	Causes of early Holocene desertification in arid central Asia. *Climate Dynamics*, **2012**, 38, 1577-1591	4.2	102
167	The PMIP4 contribution to CMIP6 – 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	6.3	98
166	How warm was the last interglacial? New model-data comparisons. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2013**, 371, 20130097	3	96
165	Centennial-scale climate change from decadally-paced explosive volcanism: a coupled sea ice-ocean mechanism. *Climate Dynamics*, **2011**, 37, 2373-2387	4.2	95
164	The PMIP4 contribution to CMIP6 – Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. *Geoscientific Model Development*, **2017**, 10, 3979-4003	6.3	92
163	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	4.2	92
162	The Continuum of Hydroclimate Variability in Western North America during the Last Millennium. *Journal of Climate*, **2013**, 26, 5863-5878	4.4	91
161	The Pliocene Model Intercomparison Project (PlioMIP) Phase 2: scientific objectives and experimental design. *Climate of the Past*, **2016**, 12, 663-675	3.9	90
160	Twelve thousand years of dust: the Holocene global dust cycle constrained by natural archives. *Climate of the Past*, **2015**, 11, 869-903	3.9	84
159	PaleoView: a tool for generating continuous climate projections spanning the last 21 000 years at regional and global scales. *Ecography*, **2017**, 40, 1348-1358	6.5	81

158	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	11.5	74
157	Past climates inform our future. *Science*, **2020**, 370,	33.3	70
156	Younger Dryas cooling and the Greenland climate response to CO2. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 11101-4	11.5	70
155	Climate Sensitivity of Moderate- and Low-Resolution Versions of CCSM3 to Preindustrial Forcings. *Journal of Climate*, **2006**, 19, 2567-2583	4.4	70
154	Modern and Last Glacial Maximum eolian sedimentation patterns in the Atlantic Ocean interpreted from sediment iron oxide content. *Paleoceanography*, **1995**, 10, 493-507		70
153	ENSO's Changing Influence on Temperature, Precipitation, and Wildfire in a Warming Climate. *Geophysical Research Letters*, **2018**, 45, 9216-9225	4.9	68
152	A major advance of tropical Andean glaciers during the Antarctic cold reversal. *Nature*, **2014**, 513, 224-8	50.4	68
151	Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments. *Geoscientific Model Development*, **2015**, 8, 3621-3637	6.3	68
150	The response of the Walker circulation to Last Glacial Maximum forcing: Implications for detection in proxies. *Paleoceanography*, **2011**, 26, n/a-n/a		65
149	Mid-Holocene NAO: A PMIP2 model intercomparison. *Geophysical Research Letters*, **2005**, 32,	4.9	64
148	Response of Thermohaline Circulation to Freshwater Forcing under Present-Day and LGM Conditions. *Journal of Climate*, **2008**, 21, 2239-2258	4.4	63
147	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	6.3	62
146	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, 6417-22	11.5	61
145	El Niño/La Niña and Sahel precipitation during the Middle Holocene. *Geophysical Research Letters*, **1999**, 26, 87-90	4.9	60
144	The Connected Isotopic Water Cycle in the Community Earth System Model Version 1. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 2547-2566	7.1	58
143	Tropical Pacific Variability in the NCAR Climate System Model. *Journal of Climate*, **2001**, 14, 3587-3607	4.4	56
142	Regional and global forcing of glacier retreat during the last deglaciation. *Nature Communications*, **2015**, 6, 8059	17.4	55
141	Simulating the mid-Pliocene Warm Period with the CCSM4 model. *Geoscientific Model Development*, **2013**, 6, 549-561	6.3	55

140	The climate response of the Indo-Pacific warm pool to glacial sea level. *Paleoceanography*, **2016**, 31, 866-894		51
139	Stochastic Atmospheric Forcing as a Cause of Greenland Climate Transitions. *Journal of Climate*, **2015**, 28, 7741-7763	4.4	50
138	Reduced ENSO variability at the LGM revealed by an isotope-enabled Earth system model. *Geophysical Research Letters*, **2017**, 44, 6984-6992	4.9	49
137	Mid-Pliocene East Asian monsoon climate simulated in the PlioMIP. *Climate of the Past*, **2013**, 9, 2085-2099	3.9	49
136	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, 14348-52	11.5	49
135	Modeling the climatic drivers of spatial patterns in vegetation composition since the Last Glacial Maximum. *Ecography*, **2013**, 36, 460-473	6.5	48
134	Mid-pliocene Atlantic Meridional Overturning Circulation not unlike modern. *Climate of the Past*, **2013**, 9, 1495-1504	3.9	48
133	Water isotopes during the Last Glacial Maximum: New general circulation model calculations. *Journal of Geophysical Research*, **2008**, 113,		48
132	Pliocene Warmth Consistent With Greenhouse Gas Forcing. *Geophysical Research Letters*, **2019**, 46, 9136-9144	4.9	47
131	Evaluating the dominant components of warming in Pliocene climate simulations. *Climate of the Past*, **2014**, 10, 79-90	3.9	47
130	Abrupt B□ling warming and ice saddle collapse contributions to the Meltwater Pulse 1a rapid sea level rise. *Geophysical Research Letters*, **2016**, 43, 9130-9137	4.9	46
129	The ice age ecologist: testing methods for reserve prioritization during the last global warming. *Global Ecology and Biogeography*, **2013**, 22, 289-301	6.1	45
128	Tropical cooling at the last glacial maximum and extratropical ocean ventilation1. *Geophysical Research Letters*, **2002**, 29, 48-1-48-4	4.9	44
127	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	2.9	42
126	Glacial changes in tropical climate amplified by the Indian Ocean. *Science Advances*, **2018**, 4, eaat9658	14.3	40
125	Evaluation of coupled ocean□atmosphere simulations of the mid-Holocene using palaeovegetation data from the northern hemisphere extratropics. *Climate Dynamics*, **2008**, 31, 871-890	4.2	39
124	The Pliocene Model Intercomparison Project Phase 2: large-scale climate features and climate sensitivity. *Climate of the Past*, **2020**, 16, 2095-2123	3.9	39
123	Amplified North Atlantic warming in the late Pliocene by changes in Arctic gateways. *Geophysical Research Letters*, **2017**, 44, 957-964	4.9	38

122	Persistent Quaternary climate refugia are hospices for biodiversity in the Anthropocene. *Nature Climate Change*, **2020**, 10, 244-248	21.4	38
121	Model sensitivity to North Atlantic freshwater forcing at 8.2 ka. *Climate of the Past*, **2013**, 9, 955-968	3.9	37
120	A numerical study of the climate response to lowered Mediterranean Sea level during the Messinian Salinity Crisis. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2009**, 279, 41-59	2.9	37
119	Equilibration and variability in a Last Glacial Maximum climate simulation with CCSM3. *Geophysical Research Letters*, **2009**, 36,	4.9	37
118	Large-scale features and evaluation of the PMIP4-CMIP6 <i>midHolocene</i> simulations. *Climate of the Past*, **2020**, 16, 1847-1872	3.9	37
117	High climate sensitivity in CMIP6 model not supported by paleoclimate. *Nature Climate Change*, **2020**, 10, 378-379	21.4	36
116	The cause of Late Cretaceous cooling: A multimodel-proxy comparison. *Geology*, **2016**, 44, 963-966	5	36
115	Using paleo-archives to safeguard biodiversity under climate change. *Science*, **2020**, 369,	33.3	34
114	Climate Variability, Volcanic Forcing, and Last Millennium Hydroclimate Extremes. *Journal of Climate*, **2018**, 31, 4309-4327	4.4	33
113	Second phase of paleoclimate modelling intercomparison project. *Eos*, **2005**, 86, 264	1.5	33
112	LGM permafrost distribution: how well can the latest PMIP multi-model ensembles perform reconstruction?. *Climate of the Past*, **2013**, 9, 1697-1714	3.9	32
111	True to Milankovitch: Glacial Inception in the New Community Climate System Model. *Journal of Climate*, **2012**, 25, 2226-2239	4.4	31
110	Sensitivity of the Northern Hemisphere climate system to extreme changes in Holocene Arctic sea ice. *Quaternary Science Reviews*, **2003**, 22, 645-658	3.9	31
109	Paleoclimate. Toward integrated reconstruction of past climates. *Science*, **2003**, 300, 589-90	33.3	30
108	Interpreting Precession-Driven δ18O Variability in the South Asian Monsoon Region. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 5927-5946	4.4	30
107	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	3.9	29
106	Large-scale features of Last Interglacial climate: results from evaluating the <i>lig127k</i> simulations for the Coupled Model Intercomparison Project (CMIP6)–Paleoclimate Modeling Intercomparison Project (PMIP4). *Climate of the Past*, **2021**, 17, 63-94	3.9	28
105	Model support for forcing of the 8.2 ka event by meltwater from the Hudson Bay ice dome. *Climate Dynamics*, **2013**, 41, 2855-2873	4.2	27

104	The role of meltwater-induced subsurface ocean warming in regulating the Atlantic meridional overturning in glacial climate simulations. *Climate Dynamics*, **2011**, 37, 1517-1532	4.2	27
103	Modeling and Data Syntheses of Past Climates: Paleoclimate Modelling Intercomparison Project Phase II Workshop; Estes Park, Colorado, 15–19 September 2008. *Eos*, **2009**, 90, 93	1.5	27
102	Tropical mountains and coal formation: A climate model study of the Westphalian (306 MA). *Geophysical Research Letters*, **1993**, 20, 1947-1950	4.9	27
101	Hydroclimate footprint of pan-Asian monsoon water isotope during the last deglaciation. *Science Advances*, **2021**, 7,	14.3	27
100	Carbon isotopes in the ocean model of the Community Earth System Model (CESM1). *Geoscientific Model Development*, **2015**, 8, 2419-2434	6.3	26
99	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	3.9	26
98	Towards a quantitative understanding of millennial-scale Antarctic warming events. *Quaternary Science Reviews*, **2010**, 29, 74-85	3.9	25
97	Agreement between reconstructed and modeled boreal precipitation of the Last Interglacial. *Science Advances*, **2019**, 5, eaax7047	14.3	25
96	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	5.3	24
95	What can Palaeoclimate Modelling do for you?. *Earth Systems and Environment*, **2019**, 3, 1-18	7.5	23
94	Global-Scale Energy and Freshwater Balance in Glacial Climate: A Comparison of Three PMIP2 LGM Simulations. *Journal of Climate*, **2008**, 21, 5008-5033	4.4	23
93	Lessons from a high-CO₂ world: an ocean view from ~ 3 million years ago. *Climate of the Past*, **2020**, 16, 1599-1615	3.9	23
92	The amplification of Arctic terrestrial surface temperatures by reduced sea-ice extent during the Pliocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2013**, 386, 59-67	2.9	22
91	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	5.3	22
90	Northern Hemisphere forcing of the last deglaciation in southern Patagonia. *Geology*, **2012**, 40, 631-634	5	20
89	Evolution of moisture transport to the western U.S. during the last deglaciation. *Geophysical Research Letters*, **2016**, 43, 3468-3477	4.9	18
88	The amplifying influence of increased ocean stratification on a future year without a summer. *Nature Communications*, **2017**, 8, 1236	17.4	17
87	PMIP4-CMIP6: the contribution of the Paleoclimate Modelling Intercomparison Project to CMIP6 **2016**,		17

86	The penultimate deglaciation: protocol for Paleoclimate Modelling Intercomparison Project (PMIP) phase 4 transient numerical simulations between 140 and 127 ka, version 1.0. *Geoscientific Model Development*, **2019**, 12, 3649-3685	6.3	16
85	Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models. *Climate of the Past*, **2020**, 16, 1777-1805	3.9	16
84	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	5.3	15
83	Volcanic Eruption Signatures in the Isotope-Enabled Last Millennium Ensemble. *Paleoceanography and Paleoclimatology*, **2019**, 34, 1534-1552	3.3	15
82	Reconstruction of the South Atlantic Subtropical Dipole index for the past 12,000 years from surface temperature proxy. *Scientific Reports*, **2014**, 4, 5291	4.9	15
81	Global Hydrological Cycle Response to Rapid and Slow Global Warming. *Journal of Climate*, **2013**, 26, 8781-8786	4.4	15
80	Arctic sea ice simulation in the PlioMIP ensemble. *Climate of the Past*, **2016**, 12, 749-767	3.9	15
79	Large sensitivity to freshwater forcing location in 8.2 ka simulations. *Paleoceanography*, **2014**, 29, 930-945		14
78	A numerical study of the South Atlantic circulation at the Last Glacial Maximum. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2007**, 253, 509-528	2.9	14
77	Increased Climate Response and Earth System Sensitivity From CCSM4 to CESM2 in Mid-Pliocene Simulations. *Journal of Advances in Modeling Earth Systems*, **2020**, 12, e2019MS002033	7.1	14
76	Causes and Climatic Consequences of the Impact Winter at the Cretaceous-Paleogene Boundary. *Geophysical Research Letters*, **2020**, 47, e60121	4.9	13
75	Forced changes to twentieth century ENSO diversity in a last Millennium context. *Climate Dynamics*, **2019**, 52, 7359-7374	4.2	13
74	Understanding Diverse Model Projections of Future Extreme El Niño. *Journal of Climate*, **2021**, 34, 449-464	4.4	13
73	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	7.1	12
72	A multi-model CMIP6-PMIP4 study of Arctic sea ice at 127 ka: sea ice data compilation and model differences. *Climate of the Past*, **2021**, 17, 37-62	3.9	12
71	The mid-Piacenzian of the North Atlantic Ocean. *Stratigraphy*, **2019**, 16, 119-144	1	11
70	Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2. *Climate of the Past*, **2021**, 17, 529-543	3.9	11
69	Thermally-Forced Mean Mass Circulations in the Northern Hemisphere. *Monthly Weather Review*, **1982**, 110, 916-932	2.4	10

68	Antarctic surface temperature and elevation during the Last Glacial Maximum. *Science*, **2021**, 372, 1097-1101	33.3	10
67	Contributions of aerosol-cloud interactions to mid-Piacenzian seasonally sea ice-free Arctic Ocean. *Geophysical Research Letters*, **2019**, 46, 9920-9929	4.9	9
66	Modeling Northern Hemisphere ice-sheet distribution during MIS 5 and MIS 7 glacial inceptions. *Climate of the Past*, **2014**, 10, 269-291	3.9	9
65	Abrupt Heinrich Stadial 1 cooling missing in Greenland oxygen isotopes. *Science Advances*, **2021**, 7,	14.3	9
64	North Atlantic subsurface temperature response controlled by effective freshwater input in Heinrich events. *Earth and Planetary Science Letters*, **2020**, 539, 116247	5.3	9
63	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	4.9	9
62	Challenges and research priorities to understand interactions between climate, ice sheets and global mean sea level during past interglacials. *Quaternary Science Reviews*, **2019**, 219, 308-311	3.9	8
61	Terrestrial ecosystem responses to global environmental change across the Cretaceous-Tertiary boundary. *Geophysical Research Letters*, **2000**, 27, 2149-2152	4.9	8
60	Intercomparison of Heat Fluxes in the South Atlantic. Part I: The Seasonal Cycle. *Journal of Climate*, **2003**, 16, 706-714	4.4	8
59	Evaluation of Arctic warming in mid-Pliocene climate simulations. *Climate of the Past*, **2020**, 16, 2325-2341	3.9	8
58	Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments		8
57	Drier tropical and subtropical Southern Hemisphere in the mid-Pliocene Warm Period. *Scientific Reports*, **2020**, 10, 13458	4.9	8
56	The Influence of Volcanic Aerosol Meridional Structure on Monsoon Responses over the Last Millennium. *Geophysical Research Letters*, **2019**, 46, 12350-12359	4.9	7
55	A Numerical Study of the Impact of Greenhouse Gases on the South Atlantic Ocean Climatology. *Climatic Change*, **2004**, 66, 163-189	4.5	7
54	Comparing proxy and model estimates of hydroclimate variability and change over the Common Era		7
53	The PMIP4 contribution to CMIP6 Part 2: Two Interglacials, Scientific Objective and Experimental Design for Holocene and Last Interglacial Simulations **2016**,		7
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