Ayako Abe-Ouchi

List of Publications by Citations

249 papers	11,366 citations	54 h-index	100 g-index
317 ext. papers	13,046 ext. citations	6 avg, IF	6.21 L-index

#	Paper	IF	Citations
249	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
248	Evaluation of climate models using palaeoclimatic data. *Nature Climate Change*, **2012**, 2, 417-424	21.4	654
247	Monsoon changes for 6000 years ago: Results of 18 simulations from the Paleoclimate Modeling Intercomparison Project (PMIP). *Geophysical Research Letters*, **1999**, 26, 859-862	4.9	318
246	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
245	Interglacials of the last 800,000 years. *Reviews of Geophysics*, **2016**, 54, 162-219	23.1	243
244	Insolation-driven 100,000-year glacial cycles and hysteresis of ice-sheet volume. *Nature*, **2013**, 500, 190-3	50.4	240
243	Large-scale features of Pliocene climate: results from the Pliocene Model Intercomparison Project. *Climate of the Past*, **2013**, 9, 191-209	3.9	237
242	Past and future polar amplification of climate change: climate model intercomparisons and ice-core constraints. *Climate Dynamics*, **2006**, 26, 513-529	4.2	205
241	Deepwater formation in the North Pacific during the Last Glacial Termination. *Science*, **2010**, 329, 200-4	33.3	202
240	Habitable zone limits for dry planets. *Astrobiology*, **2011**, 11, 443-60	3.7	196
239	Ice-sheet model sensitivities to environmental forcing and their use in projecting future sea level (the SeaRISE project). *Journal of Glaciology*, **2013**, 59, 195-224	3.4	195
238	A simulation of the global distribution and radiative forcing of soil dust aerosols at the Last Glacial Maximum. *Atmospheric Chemistry and Physics*, **2009**, 9, 3061-3073	6.8	190
237	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
236	Parameterization of global and longwave incoming radiation for the Greenland Ice Sheet. *Global and Planetary Change*, **1994**, 9, 143-164	4.2	163
235	Results from the EISMINT model intercomparison: the effects of thermomechanical coupling. *Journal of Glaciology*, **2000**, 46, 227-238	3.4	162
234	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
233	Last Glacial Maximum ocean thermohaline circulation: PMIP2 model intercomparisons and data constraints. *Geophysical Research Letters*, **2007**, 34,	4.9	154

232	The Southern Westerlies during the last glacial maximum in PMIP2 simulations. *Climate Dynamics*, **2009**, 32, 525-548	4.2	149
231	Assessing confidence in Pliocene sea surface temperatures to evaluate predictive models. *Nature Climate Change*, **2012**, 2, 365-371	21.4	144
230	Intercomparison of Simulated Global Vegetation Distributions in Response to 6 kyr BP Orbital Forcing. *Journal of Climate*, **1998**, 11, 2721-2742	4.4	139
229	Ice Sheet Model Intercomparison Project (ISMIP6) contribution to CMIP6. *Geoscientific Model Development*, **2016**, 9, 4521-4545	6.3	139
228	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
227	High-resolution simulations of the last glacial maximum climate over Europe: a solution to discrepancies with continental palaeoclimatic reconstructions?. *Climate Dynamics*, **2005**, 24, 577-590	4.2	131
226	Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity. *Climate of the Past*, **2013**, 9, 1111-1140	3.9	127
225	A multi-model assessment of last interglacial temperatures. *Climate of the Past*, **2013**, 9, 699-717	3.9	120
224	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
223	Climatic Conditions for modelling the Northern Hemisphere ice sheets throughout the ice age cycle. *Climate of the Past*, **2007**, 3, 423-438	3.9	111
222	Coupled Ocean-Atmosphere Model Experiments of Future Climate Change with an Explicit Representation of Sulfate Aerosol Scattering. *Journal of the Meteorological Society of Japan*, **1999**, 77, 1299-1307	2.8	111
221	Challenges in quantifying Pliocene terrestrial warming revealed by data–model discord. *Nature Climate Change*, **2013**, 3, 969-974	21.4	110
220	Sea surface temperature of the mid-Piacenzian ocean: a data-model comparison. *Scientific Reports*, **2013**, 3, 2013	4.9	108
219	The PMIP4 contribution to CMIP6 – Part 1: Overview and over-arching analysis plan. *Geoscientific Model Development*, **2018**, 11, 1033-1057	6.3	106
218	Sources of multi-decadal variability in Arctic sea ice extent. *Environmental Research Letters*, **2012**, 7, 034011	6.1	103
217	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
216	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
215	The Pliocene Model Intercomparison Project (PlioMIP) Phase 2: scientific objectives and experimental design. *Climate of the Past*, **2016**, 12, 663-675	3.9	90

214	Fate of the Atlantic Meridional Overturning Circulation: Strong decline under continued warming and Greenland melting. *Geophysical Research Letters*, **2016**, 43, 12,252-12,260	4.9	85
213	The LGM surface climate and atmospheric circulation over East Asia and the North Pacific in the PMIP2 coupled model simulations. *Climate of the Past*, **2007**, 3, 439-451	3.9	76
212	Efficiently Constraining Climate Sensitivity with Ensembles of Paleoclimate Simulations. *Scientific Online Letters on the Atmosphere*, **2005**, 1, 181-184	2.1	76
211	Insights into spatial sensitivities of ice mass response to environmental change from the SeaRISE ice sheet modeling project II: Greenland. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 1025-1044	3.8	73
210	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. *Cryosphere*, **2020**, 14, 3033-3070	5.5	71
209	Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments. *Geoscientific Model Development*, **2015**, 8, 3621-3637	6.3	68
208	Linking glacial and future climates through an ensemble of GCM simulations. *Climate of the Past*, **2007**, 3, 77-87	3.9	68
207	Initial results of the SeaRISE numerical experiments with the models SICOPOLIS and IcIES for the Greenland ice sheet. *Annals of Glaciology*, **2011**, 52, 23-30	2.5	67
206	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. *Cryosphere*, **2019**, 12, 1433-1460	5.5	67
205	Detecting regional anthropogenic trends in ocean acidification against natural variability. *Nature Climate Change*, **2012**, 2, 167-171	21.4	66
204	Mid-Holocene NAO: A PMIP2 model intercomparison. *Geophysical Research Letters*, **2005**, 32,	4.9	64
203	Can the Last Glacial Maximum constrain climate sensitivity?. *Geophysical Research Letters*, **2012**, 39,	4.9	63
202	Set-up of the PMIP3 paleoclimate experiments conducted using an Earth system model, MIROC-ESM. *Geoscientific Model Development*, **2013**, 6, 819-836	6.3	63
201	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. *Cryosphere*, **2020**, 14, 3071-3096	5.5	62
200	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
199	Skill and reliability of climate model ensembles at the Last Glacial Maximum and mid-Holocene. *Climate of the Past*, **2013**, 9, 811-823	3.9	58
198	State dependence of climatic instability over the past 720,000 years from Antarctic ice cores and climate modeling. *Science Advances*, **2017**, 3, e1600446	14.3	56
197	Insights into spatial sensitivities of ice mass response to environmental change from the SeaRISE ice sheet modeling project I: Antarctica. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 1002-1024	3.8	56

196	Variability in North Pacific intermediate and deep water ventilation during Heinrich events in two coupled climate models. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2012**, 61-64, 114-126	2.3	55
195	Simulating the Antarctic ice sheet in the late-Pliocene warm period: PLISMIP-ANT, an ice-sheet model intercomparison project. *Cryosphere*, **2015**, 9, 881-903	5.5	54
194	The role of mineral-dust aerosols in polar temperature amplification. *Nature Climate Change*, **2013**, 3, 487-491	21.4	54
193	Dependency of Feedbacks on Forcing and Climate State in Physics Parameter Ensembles. *Journal of Climate*, **2011**, 24, 6440-6455	4.4	54
192	Modelling changes in the mass balance of glaciers of the northern hemisphere for a transient 2×CO2 scenario. *Journal of Hydrology*, **2003**, 282, 145-163	6	54
191	A Comparison of Climate Feedback Strength between CO2 Doubling and LGM Experiments. *Journal of Climate*, **2009**, 22, 3374-3395	4.4	53
190	Equilibrium Climate Sensitivity Estimated by Equilibrating Climate Models. *Geophysical Research Letters*, **2020**, 47, e2019GL083898	4.9	53
189	Simulating the mid-Pliocene climate with the MIROC general circulation model: experimental design and initial results. *Geoscientific Model Development*, **2011**, 4, 1035-1049	6.3	50
188	Effects of the Bering Strait closure on AMOC and global climate under different background climates. *Progress in Oceanography*, **2015**, 132, 174-196	3.8	49
187	Mid-Pliocene East Asian monsoon climate simulated in the PlioMIP. *Climate of the Past*, **2013**, 9, 2085-2099	3.9	49
186	The thermal threshold of the Atlantic meridional overturning circulation and its control by wind stress forcing during glacial climate. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	48
185	Mid-pliocene Atlantic Meridional Overturning Circulation not unlike modern. *Climate of the Past*, **2013**, 9, 1495-1504	3.9	48
184	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. *Cryosphere*, **2019**, 13, 1441-1471	5.5	47
183	Evaluating the dominant components of warming in Pliocene climate simulations. *Climate of the Past*, **2014**, 10, 79-90	3.9	47
182	On the definition of seasons in paleoclimate simulations with orbital forcing. *Paleoceanography*, **2008**, 23, n/a-n/a		46
181	Perturbed physics ensemble using the MIROC5 coupled atmosphere–ocean GCM without flux corrections: experimental design and results. *Climate Dynamics*, **2012**, 39, 3041-3056	4.2	45
180	Projected land ice contributions to twenty-first-century sea level rise. *Nature*, **2021**, 593, 74-82	50.4	45
179	The role of ocean thermodynamics and dynamics in Asian summer monsoon changes during the mid-Holocene. *Climate Dynamics*, **2007**, 29, 39-50	4.2	43

178	LongRunMIP: Motivation and Design for a Large Collection of Millennial-Length AOGCM Simulations. *Bulletin of the American Meteorological Society*, **2019**, 100, 2551-2570	6.1	42
177	Influence of dynamic vegetation on climate change arising from increasing CO2. *Climate Dynamics*, **2009**, 33, 645-663	4.2	42
176	Results from the Ice-Sheet Model Intercomparison Project-Heinrich Event Intercomparison (ISMIP HEINO). *Journal of Glaciology*, **2010**, 56, 371-383	3.4	41
175	The seasonal cycle in coupled ocean-atmosphere general circulation models. *Climate Dynamics*, **2000**, 16, 775-787	4.2	41
174	Representing Variability in Subgrid Snow Cover and Snow Depth in a Global Land Model: Offline Validation. *Journal of Climate*, **2014**, 27, 3318-3330	4.4	40
173	Exposure age and ice-sheet model constraints on Pliocene East Antarctic ice sheet dynamics. *Nature Communications*, **2015**, 6, 7016	17.4	39
172	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
171	Global deep ocean oxygenation by enhanced ventilation in the Southern Ocean under long-term global warming. *Global Biogeochemical Cycles*, **2015**, 29, 1801-1815	5.9	38
170	Mechanisms controlling export production at the LGM: Effects of changes in oceanic physical fields and atmospheric dust deposition. *Global Biogeochemical Cycles*, **2011**, 25, n/a-n/a	5.9	37
169	Large-scale features and evaluation of the PMIP4-CMIP6 <i>midHolocene</i> simulations. *Climate of the Past*, **2020**, 16, 1847-1872	3.9	37
168	Modeling Obliquity and CO2 Effects on Southern Hemisphere Climate during the Past 408 ka*. *Journal of Climate*, **2014**, 27, 1863-1875	4.4	36
167	Asynchrony between Antarctic temperature and CO associated with obliquity over the past 720,000 years. *Nature Communications*, **2018**, 9, 961	17.4	34
166	Sea surface temperature changes in the Okhotsk Sea and adjacent North Pacific during the last glacial maximum and deglaciation. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2012**, 61-64, 93-105	2.3	34
165	Mid-Holocene palaeoceanography of the northern South China Sea using coupled fossil-modern coral and atmosphere-ocean GCM model. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	34
164	Are paleoclimate model ensembles consistent with the MARGO data synthesis?. *Climate of the Past*, **2011**, 7, 917-933	3.9	34
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162	The role of atmospheric heat transport and regional feedbacks in the Arctic warming at equilibrium. *Climate Dynamics*, **2017**, 49, 3457-3472	4.2	32
161	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. *Cryosphere*, **2020**, 14, 2331-2368	5.5	32

160	Deglacial ice sheet meltdown: orbital pacemaking and CO₂ effects. *Climate of the Past*, **2014**, 10, 1567-1579	3.9	31
159	Thermal structure of Dome Fuji and east Dronning Maud Land, Antarctica, simulated by a three-dimensional ice-sheet model. *Annals of Glaciology*, **2004**, 39, 433-438	2.5	31
158	The PMIP4 Last Glacial Maximum experiments: preliminary results and comparison with the PMIP3 simulations. *Climate of the Past*, **2021**, 17, 1065-1089	3.9	31
157	Influence of glacial ice sheets on the Atlantic meridional overturning circulation through surface wind change. *Climate Dynamics*, **2018**, 50, 2881-2903	4.2	31
156	Surface Arctic Amplification Factors in CMIP5 Models: Land and Oceanic Surfaces and Seasonality. *Journal of Climate*, **2016**, 29, 3297-3316	4.4	30
155	Removing the North Pacific halocline: Effects on global climate, ocean circulation and the carbon cycle. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2012**, 61-64, 106-113	2.3	30
154	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
153	Ice sheet model dependency of the simulated Greenland Ice Sheet in the mid-Pliocene. *Climate of the Past*, **2015**, 11, 369-381	3.9	29
152	Abrupt B□lling-Aller□d Warming Simulated under Gradual Forcing of the Last Deglaciation. *Geophysical Research Letters*, **2019**, 46, 11397-11405	4.9	28
151	Quantifying the ocean□s role in glacial CO₂ reductions. *Climate of the Past*, **2012**, 8, 545-563	3.9	28
150	Projection of future sea level and its variability in a high-resolution climate model: Ocean processes and Greenland and Antarctic ice-melt contributions. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	28
149	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
148	The Pacific-Atlantic seesaw and the Bering Strait. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	27
147	Polar amplification in the mid-Holocene derived from dynamical vegetation change with a GCM. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	27
146	Sources of Spread in Multimodel Projections of the Greenland Ice Sheet Surface Mass Balance. *Journal of Climate*, **2012**, 25, 1157-1175	4.4	26
145	The sea-level conundrum: case studies from palaeo-archives. *Journal of Quaternary Science*, **2010**, 25, 19-25	2.3	26
144	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
143	Glacial CO₂ decrease and deep-water deoxygenation by iron fertilization from glaciogenic dust. *Climate of the Past*, **2019**, 15, 981-996	3.9	25

142	Relative contribution of feedback processes to Arctic amplification of temperature change in MIROC GCM. *Climate Dynamics*, **2014**, 42, 1613-1630	4.2	25
141	Effects of first-order stress gradients in an ice sheet evaluated by a three-dimensional thermomechanical coupled model. *Annals of Glaciology*, **2003**, 37, 166-172	2.5	25
140	Radiative damping of annual variation in global mean surface temperature: comparison between observed and simulated feedback. *Climate Dynamics*, **2005**, 24, 591-597	4.2	25
139	A Numerical Study on the Atmospheric Circulation over the Midlatitude North Pacific during the Last Glacial Maximum. *Journal of Climate*, **2010**, 23, 135-151	4.4	23
138	The effect of sea surface temperature bias in the PMIP2 AOGCMs on mid-Holocene Asian monsoon enhancement. *Climate Dynamics*, **2009**, 33, 975-983	4.2	23
137	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
136	The depression of tropical snowlines at the last glacial maximum: What can we learn from climate model experiments?. *Quaternary International*, **2005**, 138-139, 202-219	2	23
135	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
134	Present State and Prospects of Ice Sheet and Glacier Modelling. *Surveys in Geophysics*, **2011**, 32, 555-583	7.6	22
133	Comparison of equilibrium and transient responses to CO2 increase in eight state-of-the-art climate models. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **2008**, 60, 946-961	2	22
132	European Ice Sheet Modelling Initiative (EISMINT) model intercomparison experiments with first-order mechanics. *Journal of Geophysical Research*, **2006**, 111,		22
131	Role of Southern Ocean stratification in glacial atmospheric CO2 reduction evaluated by a three-dimensional ocean general circulation model. *Paleoceanography*, **2015**, 30, 1202-1216		21
130	Robust Seasonality of Arctic Warming Processes in Two Different Versions of the MIROC GCM. *Journal of Climate*, **2014**, 27, 6358-6375	4.4	21
129	Towards Understanding Cloud Response in Atmospheric GCMs: The Use of Tendency Diagnostics. *Journal of the Meteorological Society of Japan*, **2008**, 86, 69-79	2.8	21
128	Ocean oxygen depletion due to decomposition of submarine methane hydrate. *Geophysical Research Letters*, **2014**, 41, 5075-5083	4.9	20
127	A review of progress towards understanding the transient global mean surface temperature response to radiative perturbation. *Progress in Earth and Planetary Science*, **2016**, 3,	3.9	19
126	Compound effects of Antarctic sea ice on atmospheric pCO2 change during glacial–interglacial cycle. *Geophysical Research Letters*, **2007**, 34,	4.9	18
125	Dependence of the Onset of the Runaway Greenhouse Effect on the Latitudinal Surface Water Distribution of Earth-Like Planets. *Journal of Geophysical Research E: Planets*, **2018**, 123, 559-574	4.1	17

124	On the initiation of ice sheets. *Annals of Glaciology*, **1993**, 18, 203-207	2.5	17
123	PMIP4-CMIP6: the contribution of the Paleoclimate Modelling Intercomparison Project to CMIP6 **2016**,		17
122	Responses of Basal Melting of Antarctic Ice Shelves to the Climatic Forcing of the Last Glacial Maximum and CO2 Doubling. *Journal of Climate*, **2017**, 30, 3473-3497	4.4	16
121	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
120	Modelling the Antarctic marine cryosphere at the Last Glacial Maximum. *Annals of Glaciology*, **2015**, 56, 425-435	2.5	16
119	Influence of dynamic vegetation on climate change and terrestrial carbon storage in the Last Glacial Maximum. *Climate of the Past*, **2013**, 9, 1571-1587	3.9	16
118	Using synoptic type analysis to understand New Zealand climate during the Mid-Holocene. *Climate of the Past*, **2011**, 7, 1189-1207	3.9	16
117	Development of a system emulating the global carbon cycle in Earth system models. *Geoscientific Model Development*, **2010**, 3, 365-376	6.3	16
116	Sensitivity of Greenland ice sheet simulation to the numerical procedure employed for ice-sheet dynamics. *Annals of Glaciology*, **2005**, 42, 331-336	2.5	16
115	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
114	Intensification of tropical Pacific biological productivity due to volcanic eruptions. *Geophysical Research Letters*, **2016**, 43, 1184-1192	4.9	16
113	Stability of weather regimes during the last millennium from climate simulations. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	15
112	Role of the ocean in controlling atmospheric CO2 concentration in the course of global glaciations. *Climate Dynamics*, **2011**, 37, 1755-1770	4.2	15
111	Arctic sea ice simulation in the PlioMIP ensemble. *Climate of the Past*, **2016**, 12, 749-767	3.9	15
110	Impact of Arctic Wetlands on the Climate System: Model Sensitivity Simulations with the MIROC5 AGCM and a Snow-Fed Wetland Scheme. *Journal of Hydrometeorology*, **2017**, 18, 2923-2936	3.7	14
109	Modelled response of the volume and thickness of the Antarctic ice sheet to the advance of the grounded area. *Annals of Glaciology*, **2010**, 51, 41-48	2.5	14
108	Effect of high dust amount on surface temperature during the Last Glacial Maximum: a modelling study using MIROC-ESM. *Climate of the Past*, **2018**, 14, 1565-1581	3.9	14
107	Arctic Oscillation during the Mid-Holocene and Last Glacial Maximum from PMIP2 Coupled Model Simulations. *Journal of Climate*, **2010**, 23, 3792-3813	4.4	13

106	Influence of the Antarctic Ice Sheet on southern high latitude climate during the Cenozoic: Albedo vs topography effect. *Geophysical Research Letters*, **2001**, 28, 587-590	4.9	13
105	Past abrupt changes, tipping points and cascading impacts in the Earth system. *Nature Geoscience*, **2021**, 14, 550-558	18.3	13
104	Long-term response of oceanic carbon uptake to global warming via physical and biological pumps. *Biogeosciences*, **2018**, 15, 4163-4180	4.6	12
103	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
102	Promotion of glacial ice sheet buildup 60–115 kyr B.P. by precessionally paced Northern Hemispheric meltwater pulses. *Paleoceanography*, **2010**, 25, n/a-n/a		11
101	Different transient climate responses of two versions of an atmosphere-ocean coupled general circulation model. *Geophysical Research Letters*, **2007**, 34,	4.9	11
100	An improved numerical scheme to compute horizontal gradients at the ice-sheet margin: its effect on the simulated ice thickness and temperature. *Annals of Glaciology*, **2007**, 46, 87-96	2.5	11
99	General circulation model study on the green Sahara during the mid-Holocene: An impact of convection originating above boundary layer. *Journal of Geophysical Research*, **2006**, 111,		11
98	Pliocene Model Intercomparison Project (PlioMIP2) simulations using the Model for Interdisciplinary Research on Climate (MIROC4m). *Climate of the Past*, **2020**, 16, 1523-1545	3.9	11
97	Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2. *Climate of the Past*, **2021**, 17, 529-543	3.9	11
96	Roles of Sea Ice–Surface Wind Feedback in Maintaining the Glacial Atlantic Meridional Overturning Circulation and Climate. *Journal of Climate*, **2020**, 33, 3001-3018	4.4	10
95	Temperature-induced marine export production during glacial period. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	10
94	Historical and idealized climate model experiments: an EMIC intercomparison		10
93	SeaRISE experiments revisited: potential sources of spread in multi-model projections of the Greenland ice sheet. *Cryosphere*, **2016**, 10, 43-63	5.5	10
92	Antarctic surface temperature and elevation during the Last Glacial Maximum. *Science*, **2021**, 372, 1097-1101	3333	10
91	Re-evaluation of paleo-accumulation parameterization over Northern Hemisphere ice sheets during the ice age examined with a high-resolution AGCM and a 3-D ice-sheet model. *Annals of Glaciology*, **2005**, 42, 433-440	2.5	9
90	Inner Edge of Habitable Zones for Earth-Sized Planets With Various Surface Water Distributions. *Journal of Geophysical Research E: Planets*, **2019**, 124, 2306-2324	4.1	8
89	Atmospheric Local Energetics and Energy Interactions between Mean and Eddy Fields. Part II: An Example for the Last Glacial Maximum Climate. *Journals of the Atmospheric Sciences*, **2011**, 68, 533-552	2.1	8

88	Evaluation of Arctic warming in mid-Pliocene climate simulations. *Climate of the Past*, **2020**, 16, 2325-2341	3.9	8
87	The PMIP4-CMIP6 Last Glacial Maximum experiments: preliminary results and comparison with the PMIP3-CMIP5 simulations		8
86	Coupled simulations of the mid-Holocene and Last Glacial Maximum: new results from PMIP2		8
85	Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments		8
84	Drier tropical and subtropical Southern Hemisphere in the mid-Pliocene Warm Period. *Scientific Reports*, **2020**, 10, 13458	4.9	8
83	PMIP4 experiments using MIROC-ES2L Earth system model. *Geoscientific Model Development*, **2021**, 14, 1195-1217	6.3	8
82	Can an Earth System Model simulate better climate change at mid-Holocene than an AOGCM? A comparison study of MIROC-ESM and MIROC3. *Climate of the Past*, **2013**, 9, 1519-1542	3.9	7
81	How does the Greenland ice sheet geometry remember the ice age?. *Global and Planetary Change*, **1994**, 9, 133-142	4.2	7
80	Large-scale features of Pliocene climate: results from the Pliocene Model Intercomparison Project		7
79	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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