Ayako Abe-Ouchi

List of Publications by Year
in descending order

209	14,747	19636	24961
papers	citations	61 h-index	109 g-index

317	317	317	10504
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	1.3	1,089
2	Evaluation of climate models using palaeoclimatic data. Nature Climate Change, 2012, 2, 417-424.	8.1	779
3	Monsoon changes for 6000 years ago: Results of 18 simulations from the Paleoclimate Modeling Intercomparison Project (PMIP). Geophysical Research Letters, 1999, 26, 859-862.	1.5	374
4	Interglacials of the last 800,000â€‰years. Reviews of Geophysics, 2016, 54, 162-219.	9.0	359
5	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.	1.3	349
6	Insolation-driven 100,000-year glacial cycles and hysteresis of ice-sheet volume. Nature, 2013, 500, 190-193.	13.7	344
7	Large-scale features of Pliocene climate: results from the Pliocene Model Intercomparison Project. Climate of the Past, 2013, 9, 191-209.	1.3	289
8	Past and future polar amplification of climate change: climate model intercomparisons and ice-core constraints. Climate Dynamics, 2006, 26, 513-529.	1.7	240
9	Habitable Zone Limits for Dry Planets. Astrobiology, 2011, 11, 443-460.	1.5	240
10	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.	1.9	230
11	Deepwater Formation in the North Pacific During the Last Glacial Termination. Science, 2010, 329, 200-204.	6.0	229
12	Ice-sheet model sensitivities to environmental forcing and their use in projecting future sea level (the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.1	222
13	Results from the EISMINT model intercomparison: the effects of thermomechanical coupling. Journal of Glaciology, 2000, 46, 227-238.	1.1	200
14	Projected land ice contributions to twenty-first-century sea level rise. Nature, 2021, 593, 74-82.	13.7	200
15	Ice Sheet Model Intercomparison Project (ISMIP6) contribution to CMIP6. Geoscientific Model Development, 2016, 9, 4521-4545.	1.3	199
16	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. Cryosphere, 2020, 14, 3033-3070.	1.5	198
17	Parameterization of global and longwave incoming radiation for the Greenland Ice Sheet. Global and Planetary Change, 1994, 9, 143-164.	1.6	197
18	The modern and glacial overturning circulation in the Atlantic ocean in PMIP coupled model simulations. Climate of the Past, 2007, 3, 51-64.	1.3	192

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19	Last Glacial Maximum ocean thermohaline circulation: PMIP2 model intercomparisons and data constraints. Geophysical Research Letters, 2007, 34, .	1.5	172
20	Assessing confidence in Pliocene sea surface temperatures to evaluate predictive models. Nature Climate Change, 2012, 2, 365-371.	8.1	171
21	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.	1.3	171
22	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.	1.4	170
23	The Southern Westerlies during the last glacial maximum in PMIP2 simulations. Climate Dynamics, 2009, 32, 525-548.	1.7	169
24	The PMIP4 contribution to CMIP6 â€“ Part 1: Overview and over-arching analysis plan. Geoscientific Model Development, 2018, 11, 1033-1057.	1.3	164
25	Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity. Climate of the Past, 2013, 9, 1111-1140.	1.3	157
26	Intercomparison of Simulated Global Vegetation Distributions in Response to 6 kyr BP Orbital Forcing. Journal of Climate, 1998, 11, 2721-2742.	1.2	151
27	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.	0.7	149
28	Climatic impacts of fresh water hosing under Last Glacial Maximum conditions: a multi-model study. Climate of the Past, 2013, 9, 935-953.	1.3	146
29	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. Cryosphere, 2020, 14, 3071-3096.	1.5	144
30	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.	1.7	142
31	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.	1.3	137
32	A multi-model assessment of last interglacial temperatures. Climate of the Past, 2013, 9, 699-717.	1.3	134
33	Climatic Conditions for modelling the Northern Hemisphere ice sheets throughout the ice age cycle. Climate of the Past, 2007, 3, 423-438.	1.3	133
34	Sources of multi-decadal variability in Arctic sea ice extent. Environmental Research Letters, 2012, 7, 034011.	2.2	133
35	Challenges in quantifying Pliocene terrestrial warming revealed by dataâ€“model discord. Nature Climate Change, 2013, 3, 969-974.	8.1	132
36	Fate of the Atlantic Meridional Overturning Circulation: Strong decline under continued warming and Greenland melting. Geophysical Research Letters, 2016, 43, 12,252.	1.5	132

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37	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.	1.7	126
38	Sea Surface Temperature of the mid-Piacenzian Ocean: A Data-Model Comparison. Scientific Reports, 2013, 3, 2013.	1.6	124
39	The Pliocene Model Intercomparison Project (PlioMIP) Phase 2: scientific objectives and experimental design. Climate of the Past, 2016, 12, 663-675.	1.3	119
40	The PMIP4 Last Glacial Maximum experiments: preliminary results and comparison with the PMIP3 simulations. Climate of the Past, 2021, 17, 1065-1089.	1.3	107
41	Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments. Geoscientific Model Development, 2015, 8, 3621-3637.	1.3	95
42	Large-scale features and evaluation of the PMIP4-CMIP6 <i>midHolocene</i> simulations. Climate of the Past, 2020, 16, 1847-1872.	1.3	94
43	The Pliocene Model Intercomparison Project Phase 2: large-scale climate features and climate sensitivity. Climate of the Past, 2020, 16, 2095-2123.	1.3	93
44	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. Cryosphere, 2018, 12, 1433-1460.	1.5	89
45	State dependence of climatic instability over the past 720,000 years from Antarctic ice cores and climate modeling. Science Advances, 2017, 3, e1600446.	4.7	86
46	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.	1.3	84
47	Equilibrium Climate Sensitivity Estimated by Equilibrating Climate Models. Geophysical Research Letters, 2020, 47, e2019GL083898.	1.5	84
48	Detecting regional anthropogenic trends in ocean acidification against natural variability. Nature Climate Change, 2012, 2, 167-171.	8.1	83
49	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.	1.0	79
50	Efficiently Constraining Climate Sensitivity with Ensembles of Paleoclimate Simulations. Scientific Online Letters on the Atmosphere, 2005, 1, 181-184.	0.6	78
51	Set-up of the PMIP3 paleoclimate experiments conducted using an Earth system model, MIROC-ESM. Geoscientific Model Development, 2013, 6, 819-836.	1.3	76
52	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.	1.3	76
53	Linking glacial and future climates through an ensemble of GCM simulations. Climate of the Past, 2007, 3, 77-87.	1.3	75
54	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.	2.8	75

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55	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.	3.3	75
56	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. Cryosphere, 2020, 14, 2331-2368.	1.5	72
57	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.	1.3	71
58	The role of mineral-dust aerosols in polar temperature amplification. Nature Climate Change, 2013, 3, 487-491.	8.1	70
59	Mid-Holocene NAO: A PMIP2 model intercomparison. Geophysical Research Letters, 2005, 32, .	1.5	69
60	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. Cryosphere, 2019, 13, 1441-1471.	1.5	69
61	Can the Last Glacial Maximum constrain climate sensitivity?. Geophysical Research Letters, 2012, 39, .	1.5	68
62	LongRunMIP: Motivation and Design for a Large Collection of Millennial-Length AOGCM Simulations. Bulletin of the American Meteorological Society, 2019, 100, 2551-2570.	1.7	65
63	A Comparison of Climate Feedback Strength between CO2 Doubling and LGM Experiments. Journal of Climate, 2009, 22, 3374-3395.	1.2	64
64	Skill and reliability of climate model ensembles at the Last Glacial Maximum and mid-Holocene. Climate of the Past, 2013, 9, 811-823.	1.3	64
65	Effects of the Bering Strait closure on AMOC and global climate under different background climates. Progress in Oceanography, 2015, 132, 174-196.	1.5	64
66	Dependency of Feedbacks on Forcing and Climate State in Physics Parameter Ensembles. Journal of Climate, 2011, 24, 6440-6455.	1.2	63
67	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.	1.0	63
68	Past abrupt changes, tipping points and cascading impacts in the Earth system. Nature Geoscience, 2021, 14, 550-558.	5.4	62
69	Simulating the Antarctic ice sheet in the late-Pliocene warm period: PLISMIP-ANT, an ice-sheet model intercomparison project. Cryosphere, 2015, 9, 881-903.	1.5	61
70	Antarctic surface temperature and elevation during the Last Glacial Maximum. Science, 2021, 372, 1097-1101.	6.0	61
71	Mid-Pliocene East Asian monsoon climate simulated in the PlioMIP. Climate of the Past, 2013, 9, 2085-2099.	1.3	60
72	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.	0.6	59

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73	Simulating the mid-Pliocene climate with the MIROC general circulation model: experimental design and initial results. Geoscientific Model Development, 2011, 4, 1035-1049.	1.3	58
74	Evaluating the dominant components of warming in Pliocene climate simulations. Climate of the Past, 2014, 10, 79-90.	1.3	58
75	Modelling changes in the mass balance of glaciers of the northern hemisphere for a transient 2Ã—CO2 scenario. Journal of Hydrology, 2003, 282, 145-163.	2.3	56
76	Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models. Climate of the Past, 2020, 16, 1777-1805.	1.3	56
77	The thermal threshold of the Atlantic meridional overturning circulation and its control by wind stress forcing during glacial climate. Geophysical Research Letters, 2012, 39, .	1.5	55
78	Influence of dynamic vegetation on climate change arising from increasing CO2. Climate Dynamics, 2009, 33, 645-663.	1.7	53
79	Global deep ocean oxygenation by enhanced ventilation in the Southern Ocean under longâ€term global warming. Global Biogeochemical Cycles, 2015, 29, 1801-1815.	1.9	53
80	Lessons from a high-CO₂ world: an ocean view from â€‰â¼â€‰3Âmillion years ago. Climate of the Past, 2020, 16, 1599-1615.	1.3	52
81	On the definition of seasons in paleoclimate simulations with orbital forcing. Paleoceanography, 2008, 23, .	3.0	51
82	Asynchrony between Antarctic temperature and CO2 associated with obliquity over the past 720,000 years. Nature Communications, 2018, 9, 961.	5.8	51
83	Mid-pliocene Atlantic Meridional Overturning Circulation not unlike modern. Climate of the Past, 2013, 9, 1495-1504.	1.3	50
84	Perturbed physics ensemble using the MIROC5 coupled atmosphereâ€“ocean GCM without flux corrections: experimental design and results. Climate Dynamics, 2012, 39, 3041-3056.	1.7	49
85	Modeling Obliquity and CO2 Effects on Southern Hemisphere Climate during the Past 408 ka*. Journal of Climate, 2014, 27, 1863-1875.	1.2	49
86	The role of ocean thermodynamics and dynamics in Asian summer monsoon changes during the mid-Holocene. Climate Dynamics, 2007, 29, 39-50.	1.7	48
87	Results from the Ice-Sheet Model Intercomparison Projectâ€“Heinrich Event Intercomparison (ISMIP) Tj ETQq1 1 0.784314 rgBT /Over	1.1	48
88	Representing Variability in Subgrid Snow Cover and Snow Depth in a Global Land Model: Offline Validation. Journal of Climate, 2014, 27, 3318-3330.	1.2	48
89	Abrupt BÃ¸llingâ€AllerÃ¸d Warming Simulated under Gradual Forcing of the Last Deglaciation. Geophysical Research Letters, 2019, 46, 11397-11405.	1.5	48
90	The seasonal cycle in coupled ocean-atmosphere general circulation models. Climate Dynamics, 2000, 16, 775-787.	1.7	47

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91	Exposure age and ice-sheet model constraints on Pliocene East Antarctic ice sheet dynamics. Nature Communications, 2015, 6, 7016.	5.8	45
92	The role of atmospheric heat transport and regional feedbacks in the Arctic warming at equilibrium. Climate Dynamics, 2017, 49, 3457-3472.	1.7	43
93	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.	1.9	42
94	Surface Arctic Amplification Factors in CMIP5 Models: Land and Oceanic Surfaces and Seasonality. Journal of Climate, 2016, 29, 3297-3316.	1.2	42
95	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.	1.5	40
96	Deglacial ice sheet meltdown: orbital pacemaking and CO₂ effects. Climate of the Past, 2014, 10, 1567-1579.	1.3	40
97	The Pacificâ€Atlantic seesaw and the Bering Strait. Geophysical Research Letters, 2012, 39, .	1.5	39
98	Are paleoclimate model ensembles consistent with the MARGO data synthesis?. Climate of the Past, 2011, 7, 917-933.	1.3	38
99	Ice sheet model dependency of the simulated Greenland Ice Sheet in the mid-Pliocene. Climate of the Past, 2015, 11, 369-381.	1.3	38
100	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.	2.8	36
101	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.	0.6	36
102	Influence of glacial ice sheets on the Atlantic meridional overturning circulation through surface wind change. Climate Dynamics, 2018, 50, 2881-2903.	1.7	36
103	Vegetation dynamics and plant CO₂ responses as positive feedbacks in a greenhouse world. Geophysical Research Letters, 2009, 36, .	1.5	35
104	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.	0.6	35
105	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.	1.3	35
106	Glacial CO₂ decrease and deep-water deoxygenation by iron fertilization from glaciogenic dust. Climate of the Past, 2019, 15, 981-996.	1.3	34
107	Relative contribution of feedback processes to Arctic amplification of temperature change in MIROC GCM. Climate Dynamics, 2014, 42, 1613-1630.	1.7	33
108	The seaâ€level conundrum: case studies from palaeoâ€archives. Journal of Quaternary Science, 2010, 25, 19-25.	1.1	32

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109	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.	0.7	30
110	Polar amplification in the mid-Holocene derived from dynamical vegetation change with a GCM. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	30
111	Quantifying the ocean's role in glacial CO₂ reductions. Climate of the Past, 2012, 8, 545-563.	1.3	30
112	Radiative damping of annual variation in global mean surface temperature: comparison between observed and simulated feedback. Climate Dynamics, 2005, 24, 591-597.	1.7	29
113	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.	1.3	29
114	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.	1.5	28
115	Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets. Geophysical Research Letters, 2021, 48, e2020GL091741.	1.5	28
116	Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks. Nature Communications, 2022, 13, 1306.	5.8	28
117	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.	2.8	27
118	Global-Scale Energy and Freshwater Balance in Glacial Climate: A Comparison of Three PMIP2 LGM Simulations. Journal of Climate, 2008, 21, 5008-5033.	1.2	27
119	Sources of Spread in Multimodel Projections of the Greenland Ice Sheet Surface Mass Balance. Journal of Climate, 2012, 25, 1157-1175.	1.2	27
120	Influence of dynamic vegetation on climate change and terrestrial carbon storage in the Last Glacial Maximum. Climate of the Past, 2013, 9, 1571-1587.	1.3	26
121	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.	1.3	26
122	Comparison of equilibrium and transient responses to CO2increase in eight state-of-the-art climate models. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 946-961.	0.8	25
123	A Numerical Study on the Atmospheric Circulation over the Midlatitude North Pacific during the Last Glacial Maximum. Journal of Climate, 2010, 23, 135-151.	1.2	25
124	Drier tropical and subtropical Southern Hemisphere in the mid-Pliocene Warm Period. Scientific Reports, 2020, 10, 13458.	1.6	25
125	European Ice Sheet Modelling Initiative (EISMINT) model intercomparison experiments with first-order mechanics. Journal of Geophysical Research, 2006, 111, .	3.3	24
126	A review of progress towards understanding the transient global mean surface temperature response to radiative perturbation. Progress in Earth and Planetary Science, 2016, 3, .	1.1	24

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127	The effect of sea surface temperature bias in the PMIP2 AOGCMs on mid-Holocene Asian monsoon enhancement. Climate Dynamics, 2009, 33, 975-983.	1.7	23
128	Using synoptic type analysis to understand New Zealand climate during the Mid-Holocene. Climate of the Past, 2011, 7, 1189-1207.	1.3	23
129	Present State and Prospects of Ice Sheet and Glacier Modelling. Surveys in Geophysics, 2011, 32, 555-583.	2.1	23
130	Ocean oxygen depletion due to decomposition of submarine methane hydrate. Geophysical Research Letters, 2014, 41, 5075-5083.	1.5	23
131	Robust Seasonality of Arctic Warming Processes in Two Different Versions of the MIROC GCM. Journal of Climate, 2014, 27, 6358-6375.	1.2	23
132	Role of Southern Ocean stratification in glacial atmospheric CO₂ reduction evaluated by a three-dimensional ocean general circulation model. Paleoceanography, 2015, 30, 1202-1216.	3.0	22
133	Dependence of the Onset of the Runaway Greenhouse Effect on the Latitudinal Surface Water Distribution of Earthâ€Like Planets. Journal of Geophysical Research E: Planets, 2018, 123, 559-574.	1.5	22
134	PMIP4 experiments using MIROC-ES2L Earth system model. Geoscientific Model Development, 2021, 14, 1195-1217.	1.3	22
135	Towards Understanding Cloud Response in Atmospheric GCMs: The Use of Tendency Diagnostics. Journal of the Meteorological Society of Japan, 2008, 86, 69-79.	0.7	22
136	Intensification of tropical Pacific biological productivity due to volcanic eruptions. Geophysical Research Letters, 2016, 43, 1184-1192.	1.5	21
137	Antarctic Slope Current Modulates Ocean Heat Intrusions Towards Totten Glacier. Geophysical Research Letters, 2021, 48, e2021GL094149.	1.5	21
138	Pliocene Model Intercomparison Project (PlioMIP2) simulations using the Model for Interdisciplinary Research on Climate (MIROC4m). Climate of the Past, 2020, 16, 1523-1545.	1.3	21
139	Evaluation of Arctic warming in mid-Pliocene climate simulations. Climate of the Past, 2020, 16, 2325-2341.	1.3	21
140	Sensitivity of Greenland ice sheet simulation to the numerical procedure employed for ice-sheet dynamics. Annals of Glaciology, 2005, 42, 331-336.	2.8	20
141	Compound effects of Antarctic sea ice on atmospheric pCO₂ change during glacialâ€“interglacial cycle. Geophysical Research Letters, 2007, 34, .	1.5	20
142	Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2. Climate of the Past, 2021, 17, 529-543.	1.3	20
143	Long-term response of oceanic carbon uptake to global warming via physical and biological pumps. Biogeosciences, 2018, 15, 4163-4180.	1.3	19
144	On the initiation of ice sheets. Annals of Glaciology, 1993, 18, 203-207.	2.8	18

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145	Development of a system emulating the global carbon cycle in Earth system models. Geoscientific Model Development, 2010, 3, 365-376.	1.3	18
146	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.	0.7	18
147	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.	1.3	18
148	Stability of weather regimes during the last millennium from climate simulations. Geophysical Research Letters, 2012, 39, .	1.5	17
149	Role of the ocean in controlling atmospheric CO2 concentration in the course of global glaciations. Climate Dynamics, 2011, 37, 1755-1770.	1.7	16
150	Modelling the Antarctic marine cryosphere at the Last Glacial Maximum. Annals of Glaciology, 2015, 56, 425-435.	2.8	16
151	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.	1.2	16
152	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.	1.5	15
153	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.	2.8	15
154	Arctic Oscillation during the Mid-Holocene and Last Glacial Maximum from PMIP2 Coupled Model Simulations. Journal of Climate, 2010, 23, 3792-3813.	1.2	15
155	Arctic sea ice simulation in the PlioMIP ensemble. Climate of the Past, 2016, 12, 749-767.	1.3	15
156	Inner Edge of Habitable Zones for Earthâ€Sized Planets With Various Surface Water Distributions. Journal of Geophysical Research E: Planets, 2019, 124, 2306-2324.	1.5	15
157	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.	3.0	14
158	Roles of Sea Iceâ€“Surface Wind Feedback in Maintaining the Glacial Atlantic Meridional Overturning Circulation and Climate. Journal of Climate, 2020, 33, 3001-3018.	1.2	14
159	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, .	3.3	13
160	Increased interglacial atmospheric CO2 levels followed the mid-Pleistocene Transition. Nature Geoscience, 2022, 15, 307-313.	5.4	13
161	How does the Greenland ice sheet geometry remember the ice age?. Global and Planetary Change, 1994, 9, 133-142.	1.6	12
162	Different transient climate responses of two versions of an atmosphere-ocean coupled general circulation model. Geophysical Research Letters, 2007, 34, .	1.5	12

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163	Indian Monsoonal Variations During the Past 80ÂKyr Recorded in NGHPâ€02 Hole 19B, Western Bay of Bengal: Implications From Chemical and Mineral Properties. Geochemistry, Geophysics, Geosystems, 2019, 20, 148-165.	1.0	12
164	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.	2.8	11
165	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.	2.8	11
166	Temperatureâ€induced marine export production during glacial period. Geophysical Research Letters, 2012, 39, .	1.5	11
167	Effect of Climatic Precession on Dansgaardâ€Oeschgerâ€Like Oscillations. Geophysical Research Letters, 2022, 49, .	1.5	11
168	On the initiation of ice sheets. Annals of Glaciology, 1993, 18, 203-207.	2.8	10
169	PMIP4/CMIP6 last interglacial simulations using three different versions of MIROC: importance of vegetation. Climate of the Past, 2021, 17, 21-36.	1.3	10
170	Mid-Pliocene West African Monsoon rainfall as simulated in the PlioMIP2 ensemble. Climate of the Past, 2021, 17, 1777-1794.	1.3	10
171	SeaRISE experiments revisited: potential sources of spread in multi-model projections of the Greenland ice sheet. Cryosphere, 2016, 10, 43-63.	1.5	10
172	Reduced El NiÃ±o variability in the mid-Pliocene according to the PlioMIP2 ensemble. Climate of the Past, 2021, 17, 2427-2450.	1.3	10
173	A Prototype Ultra-Wideband FMCW Radar for Snow and Soil-Moisture Measurements. , 2019, , .		9
174	Abrupt climate changes in the last two deglaciations simulated with different Northern ice sheet discharge and insolation. Scientific Reports, 2021, 11, 22359.	1.6	9
175	Surface Mass Balance Controlled by Local Surface Slope in Inland Antarctica: Implications for Iceâ€Sheet Mass Balance and Oldest Ice Delineation in Dome Fuji. Geophysical Research Letters, 2021, 48, .	1.5	9
176	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.	0.6	8
177	Climate dependent contrast in surface mass balance in East Antarctica over the past 216 ka. Journal of Glaciology, 2016, 62, 1037-1048.	1.1	8
178	The Importance of Ocean Dynamical Feedback for Understanding the Impact of Midâ€“High-Latitude Warming on Tropical Precipitation Change. Journal of Climate, 2018, 31, 2417-2434.	1.2	8
179	Regional patterns and temporal evolution of ocean iron fertilization and CO2 drawdown during the last glacial termination. Earth and Planetary Science Letters, 2021, 554, 116675.	1.8	8
180	Mass loss of the Antarctic ice sheet until the year 3000 under a sustained late-21st-century climate. Journal of Glaciology, 2022, 68, 605-617.	1.1	8

#	Article	IF	Citations
181	Timing of ice-age terminations determined by wavelet methods. Paleoceanography, 2003, 18, n/a-n/a.	3.0	7
182	Effects of sea ice dynamics on the Antarctic sea ice distribution in a coupled ocean atmosphere model. Journal of Geophysical Research, 2004, 109, .	3.3	7
183	Effects of physical changes in the ocean on the atmospheric pCO2: glacial-interglacial cycles. Climate Dynamics, 2010, 35, 713-719.	1.7	7
184	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.	1.3	7
185	Overestimate of committed warming. Nature, 2017, 547, E16-E17.	13.7	7
186	Glacial carbon cycle changes by Southern Ocean processes with sedimentary amplification. Science Advances, 2021, 7, .	4.7	7
187	A short history of the thermomechanical theory and modeling of glaciers and ice sheets. Journal of Glaciology, 2010, 56, 1087-1094.	1.1	6
188	Compositions of Dust and Sea Salts in the Dome C and Dome Fuji Ice Cores From Last Glacial Maximum to Early Holocene Based on Iceâ€Sublimation and Singleâ€Particle Measurements. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032208.	1.2	6
189	Glacial mode shift of the Atlantic meridional overturning circulation by warming over the Southern Ocean. Communications Earth & Environment, 2021, 2, .	2.6	6
190	Constraining Carbon Cycle Feedback Using Paleodata: Palaeocarbon Modelling Intercomparison Project Kickoff Workshop; Totnes, United Kingdom, 26â€“28 January 2009. Eos, 2009, 90, 140.	0.1	5
191	Impact of mid-glacial ice sheets on deep ocean circulation and global climate. Climate of the Past, 2021, 17, 95-110.	1.3	5
192	A First Intercomparison of the Simulated LGM Carbon Results Within PMIPâ€Carbon: Role of the Ocean Boundary Conditions. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004302.	1.3	5
193	PMIP2 Workshop. PAGES News, 2009, 17, 42-43.	0.3	5
194	Differences Between Presentâ€Day and Cretaceous Hydrological Cycle Responses to Rising CO₂ Concentration. Geophysical Research Letters, 2021, 48, e2021GL094341.	1.5	5
195	Millennial-scale variability of Indian summer monsoon constrained by the western Bay of Bengal sediments: Implication from geochemical proxies of sea surface salinity and river runoff. Global and Planetary Change, 2022, 208, 103719.	1.6	5
196	Ecological Niche and Least-Cost Path Analyses to Estimate Optimal Migration Routes of Initial Upper Palaeolithic Populations to Eurasia. , 2018, , 199-212.		4
197	The Onset of a Globally Iceâ€Covered State for a Land Planet. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006975.	1.5	3
198	Response of convective systems to the orbital forcing of the last interglacial in a global nonhydrostatic atmospheric model with and without a convective parameterization. Climate Dynamics, 2022, 59, 1617-1648.	1.7	3

#	Article	IF	Citations
199	African Hydroclimate During the Early Eocene From the DeepMIP Simulations. Paleoceanography and Paleoclimatology, 2022, 37, .	1.3	3
200	Freshwater influx to the Eastern Mediterranean Sea from the melting of the Fennoscandian ice sheet during the last deglaciation. Scientific Reports, 2022, 12, 8466.	1.6	3
201	A SENSITIVITY STUDY OF A SIMPLE WETLAND SCHEME FOR IMPROVEMENTS IN THE REPRESENTATION OF SURFACE HYDROLOGY AND DECREASE OF SURFACE AIR TEMPERATURE BIAS. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2015, 71, I_955-I_960.	0.0	2
202	Changes in the Kuroshio Path, Surface Velocity and Transport During the Last 35,000 Years. Geophysical Research Letters, 2022, 49, .	1.5	2
203	Insolation Variations and Ice Age Cycles in the Quaternary. Journal of Geography (Chigaku Zasshi), 2007, 116, 768-782.	0.1	1
204	Comparing structurally different climate models in a paleoenvironmental context. Eos, 2011, 92, 180-180.	0.1	1
205	Does a difference in ice sheets between Marine Isotope Stages 3 and 5a affect the duration of stadials? Implications from hosing experiments. Climate of the Past, 2021, 17, 1919-1936.	1.3	1
206	Implementation of the RCIP scheme and its performance for 1-D age computations in ice-sheet models. Geoscientific Model Development, 2020, 13, 5875-5896.	1.3	1
207	Review of the current polar ice sheet surface mass balance and its modelling: the 2020 summer edition. Journal of the Japanese Society of Snow and Ice, 2021, 83, 27-50.	0.0	0
208	Millennial time scale changes in surface to intermediate-deep layer circulation recorded insediment cores from the north western North Pacific. The Quaternary Research, 2009, 48, 179-194.	0.2	0
209	Modelling the Past and Future Climate by Dr. Syukuro Manabe. Trends in the Sciences, 2022, 27, 2_14-2_18.	0.0	0