

Gerrit Lohmann

List of Publications by Citations

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338 papers	10,357 citations	54 h-index	88 g-index
480 ext. papers	12,104 ext. citations	6.1 avg, IF	6.48 L-index

#	Paper	IF	Citations
338	Earth system models of intermediate complexity: closing the gap in the spectrum of climate system models. <i>Climate Dynamics</i> , 2002 , 18, 579-586	4.2	342
337	Thermohaline circulation hysteresis: A model intercomparison. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	274
336	Southern Ocean origin for the resumption of Atlantic thermohaline circulation during deglaciation. <i>Nature</i> , 2003 , 424, 532-6	50.4	248
335	Large-scale features of Pliocene climate: results from the Pliocene Model Intercomparison Project. <i>Climate of the Past</i> , 2013 , 9, 191-209	3.9	237
334	Increased seasonality in Middle East temperatures during the last interglacial period. <i>Nature</i> , 2004 , 429, 164-8	50.4	223
333	The Holocene temperature conundrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3501-5	11.5	198
332	Holocene and Eemian sea surface temperature trends as revealed by alkenone and Mg/Ca paleothermometry. <i>Quaternary Science Reviews</i> , 2010 , 29, 989-1004	3.9	197
331	Stable water isotopes in the ECHAM5 general circulation model: Toward high-resolution isotope modeling on a global scale. <i>Journal of Geophysical Research</i> , 2011 , 116,		187
330	Evidence for obliquity forcing of glacial Termination II. <i>Science</i> , 2009 , 325, 1527-31	33.3	167
329	Abrupt glacial climate shifts controlled by ice sheet changes. <i>Nature</i> , 2014 , 512, 290-4	50.4	153
328	A Hemispheric Mechanism for the Atlantic Multidecadal Oscillation. <i>Journal of Climate</i> , 2007 , 20, 2706-2719	4.9	148
327	Radiocarbon simulations for the glacial ocean: The effects of wind stress, Southern Ocean sea ice and Heinrich events. <i>Earth and Planetary Science Letters</i> , 2005 , 235, 45-61	5.3	142
326	Millennial-scale variability in Antarctic ice-sheet discharge during the last deglaciation. <i>Nature</i> , 2014 , 510, 134-8	50.4	140
325	North Pacific and North Atlantic sea-surface temperature variability during the Holocene. <i>Quaternary Science Reviews</i> , 2004 , 23, 2141-2154	3.9	139
324	Climatic impacts of fresh water hosing under Last Glacial Maximum conditions: a multi-model study. <i>Climate of the Past</i> , 2013 , 9, 935-953	3.9	132
323	Towards quantitative sea ice reconstructions in the northern North Atlantic: A combined biomarker and numerical modelling approach. <i>Earth and Planetary Science Letters</i> , 2011 , 306, 137-148	5.3	125
322	Acceleration technique for Milankovitch type forcing in a coupled atmosphere-ocean circulation model: method and application for the Holocene. <i>Climate Dynamics</i> , 2004 , 23, 727-743	4.2	124

321	What caused Earth's temperature variations during the last 800,000 years? Data-based evidence on radiative forcing and constraints on climate sensitivity. <i>Quaternary Science Reviews</i> , 2010 , 29, 129-145	3.9	123
320	A multi-model assessment of last interglacial temperatures. <i>Climate of the Past</i> , 2013 , 9, 699-717	3.9	120
319	Intensification and poleward shift of subtropical western boundary currents in a warming climate. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 4928-4945	3.3	114
318	Arctic/North Atlantic Oscillation signature in Holocene sea surface temperature trends as obtained from alkenone data. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	112
317	Challenges in quantifying Pliocene terrestrial warming revealed by data-model discord. <i>Nature Climate Change</i> , 2013 , 3, 969-974	21.4	110
316	Sea surface temperature of the mid-Piacenzian ocean: a data-model comparison. <i>Scientific Reports</i> , 2013 , 3, 2013	4.9	108
315	Coupling of millennial-scale changes in sea surface temperature and precipitation off northeastern Brazil with high-latitude climate shifts during the last glacial period. <i>Paleoceanography</i> , 2007 , 22, n/a-n/a		108
314	Holocene climate variability as derived from alkenone sea surface temperature and coupled ocean-atmosphere model experiments. <i>Climate Dynamics</i> , 2004 , 23, 215-227	4.2	105
313	The PMIP4 contribution to CMIP6 [Part 4: Scientific objectives and experimental design of the PMIP4-CMIP6 Last Glacial Maximum experiments and PMIP4 sensitivity experiments. <i>Geoscientific Model Development</i> , 2017 , 10, 4035-4055	6.3	98
312	Orbitally driven insolation forcing on Holocene climate trends: Evidence from alkenone data and climate modeling. <i>Paleoceanography</i> , 2006 , 21, n/a-n/a		97
311	A warm Miocene climate at low atmospheric CO2 levels. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	96
310	The PMIP4 contribution to CMIP6 [Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. <i>Geoscientific Model Development</i> , 2017 , 10, 3979-4003	6.3	92
309	Cenozoic climate changes: A review based on time series analysis of marine benthic $\delta^{18}O$ records. <i>Reviews of Geophysics</i> , 2014 , 52, 333-374	23.1	92
308	Simulated Atlantic Multidecadal Oscillation during the Holocene. <i>Journal of Climate</i> , 2012 , 25, 6989-7002	4.4	92
307	Subtropical coral reveals abrupt early-twentieth-century freshening in the western North Pacific Ocean. <i>Geology</i> , 2009 , 37, 527-530	5	92
306	Different ocean states and transient characteristics in Last Glacial Maximum simulations and implications for deglaciation. <i>Climate of the Past</i> , 2013 , 9, 2319-2333	3.9	86
305	Climate warming during Antarctic ice sheet expansion at the Middle Miocene transition. <i>Nature Geoscience</i> , 2014 , 7, 376-381	18.3	84
304	Intermediate depth warming in the tropical Atlantic related to weakened thermohaline circulation: Combining paleoclimate data and modeling results for the last deglaciation. <i>Paleoceanography</i> , 2004 , 19, n/a-n/a		81

303	Evidence for ice-free summers in the late Miocene central Arctic Ocean. <i>Nature Communications</i> , 2016 , 7, 11148	17.4	80
302	A model-data comparison of the Holocene global sea surface temperature evolution. <i>Climate of the Past</i> , 2013 , 9, 1807-1839	3.9	80
301	Modelling mid-Pliocene climate with COSMOS. <i>Geoscientific Model Development</i> , 2012 , 5, 1221-1243	6.3	78
300	Reorganization of the North Atlantic Oscillation during early Holocene deglaciation. <i>Nature Geoscience</i> , 2016 , 9, 602-605	18.3	77
299	Rapid transitions in the Atlantic thermohaline circulation triggered by global warming and meltwater during the last deglaciation. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	77
298	Abrupt North Atlantic circulation changes in response to gradual CO2 forcing in a glacial climate state. <i>Nature Geoscience</i> , 2017 , 10, 518-523	18.3	75
297	Stable water isotopes in the coupled atmosphere-land surface model ECHAM5-JSBACH. <i>Geoscientific Model Development</i> , 2013 , 6, 1463-1480	6.3	70
296	Climate signature of solar irradiance variations: analysis of long-term instrumental, historical, and proxy data. <i>International Journal of Climatology</i> , 2004 , 24, 1045-1056	3.5	66
295	Synchronicity of Antarctic temperatures and local solar insolation on orbital timescales. <i>Nature</i> , 2011 , 471, 91-4	50.4	65
294	Miocene ocean circulation inferred from marine carbon cycle modeling combined with benthic isotope records. <i>Paleoceanography</i> , 2011 , 26,		64
293	Evidence for Two Distinct Modes of Large-Scale Ocean Circulation Changes over the Last Century. <i>Journal of Climate</i> , 2010 , 23, 5-16	4.4	63
292	Pronounced subsurface cooling of North Atlantic waters off Northwest Africa during Dansgaard-Oeschger interstadials. <i>Earth and Planetary Science Letters</i> , 2012 , 339-340, 95-102	5.3	61
291	Influence of Vertical Mixing on the Thermohaline Hysteresis: Analyses of an OGCM. <i>Journal of Physical Oceanography</i> , 2003 , 33, 1707-1721	2.4	61
290	Atmospheric and oceanic freshwater transport during weak Atlantic overturning circulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2003 , 55, 438-449	2	61
289	Arctic Ocean sea ice cover during the penultimate glacial and the last interglacial. <i>Nature Communications</i> , 2017 , 8, 373	17.4	60
288	Eemian tropical and subtropical African moisture transport: an isotope modelling study. <i>Climate Dynamics</i> , 2009 , 33, 1075-1088	4.2	58
287	A model-data comparison of $\delta^{13}\text{C}$ in the glacial Atlantic Ocean. <i>Paleoceanography</i> , 2011 , 26, n/a-n/a		56
286	Holocene evolution of the Southern Hemisphere westerly winds in transient simulations with global climate models. <i>Climate of the Past</i> , 2012 , 8, 391-402	3.9	55

285	Simulating the Antarctic ice sheet in the late-Pliocene warm period: PLISMIP-ANT, an ice-sheet model intercomparison project. <i>Cryosphere</i> , 2015 , 9, 881-903	5.5	54
284	Changing climate states and stability: from Pliocene to present. <i>Climate Dynamics</i> , 2011 , 37, 2437-2453	4.2	54
283	Impacts of the North Atlantic gyre circulation on Holocene climate off northwest Africa. <i>Geology</i> , 2007 , 35, 387	5	54
282	Interannual to decadal summer drought variability over Europe and its relationship to global sea surface temperature. <i>Climate Dynamics</i> , 2012 , 38, 363-377	4.2	53
281	Dependence of abrupt Atlantic meridional ocean circulation changes on climate background states. <i>Geophysical Research Letters</i> , 2013 , 40, 3698-3704	4.9	52
280	Distinct Modes of Internal Variability in the Global Meridional Overturning Circulation Associated with the Southern Hemisphere Westerly Winds. <i>Journal of Physical Oceanography</i> , 2012 , 42, 785-801	2.4	51
279	Porites corals from Crete (Greece) open a window into Late Miocene (10Ma) seasonal and interannual climate variability. <i>Earth and Planetary Science Letters</i> , 2006 , 245, 81-94	5.3	51
278	Impacts of the North Atlantic Oscillation and the El Niño Southern Oscillation on Danube river flow variability. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	51
277	Climate information imprinted in oxygen-isotopic composition of precipitation in Europe. <i>Earth and Planetary Science Letters</i> , 2011 , 311, 144-154	5.3	50
276	Seasonal cycle as template for climate variability on astronomical timescales. <i>Paleoceanography</i> , 2009 , 24,		50
275	Mid-Pliocene East Asian monsoon climate simulated in the PlioMIP. <i>Climate of the Past</i> , 2013 , 9, 2085-2099	3.9	49
274	Mid-pliocene Atlantic Meridional Overturning Circulation not unlike modern. <i>Climate of the Past</i> , 2013 , 9, 1495-1504	3.9	48
273	Sea Ice Effects on the Sensitivity of the Thermohaline Circulation*. <i>Journal of Climate</i> , 1998 , 11, 2789-2803	4.4	48
272	Evaluating the dominant components of warming in Pliocene climate simulations. <i>Climate of the Past</i> , 2014 , 10, 79-90	3.9	47
271	Glacial/Interglacial changes in H ₂ O, HDO and deuterium excess [results from the fully coupled ECHAM5/MPI-OM Earth system model. <i>Geoscientific Model Development</i> , 2016 , 9, 647-670	6.3	47
270	Poleward Shift of the Major Ocean Gyres Detected in a Warming Climate. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085868	4.9	46
269	Ocean temperature thresholds for Last Interglacial West Antarctic Ice Sheet collapse. <i>Geophysical Research Letters</i> , 2016 , 43, 2675-2682	4.9	46
268	The seasonal sea-ice zone in the glacial Southern Ocean as a carbon sink. <i>Nature Communications</i> , 2015 , 6, 8136	17.4	45

267	Conceptual model for millennial climate variability: a possible combined solar-thermohaline circulation origin for the ~1,500-year cycle. <i>Climate Dynamics</i> , 2009 , 32, 301-311	4.2	45
266	Marine radiocarbon reservoir age simulations for the past 50,000 years. <i>Geophysical Research Letters</i> , 2017 , 44, 8473-8480	4.9	44
265	Prediction of Spring Elbe Discharge Based on Stable Teleconnections with Winter Global Temperature and Precipitation. <i>Journal of Climate</i> , 2008 , 21, 6215-6226	4.4	44
264	On the hydrological cycle under paleoclimatic conditions as derived from AGCM simulations. <i>Journal of Geophysical Research</i> , 2000 , 105, 17417-17436		43
263	GrSMBMIP: intercomparison of the modelled 1980-2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020 , 14, 3935-3958	5.5	43
262	Temperature trends during the Present and Last Interglacial periods in multi-model-data comparison. <i>Quaternary Science Reviews</i> , 2014 , 99, 224-243	3.9	42
261	Deriving dynamical models from paleoclimatic records: application to glacial millennial-scale climate variability. <i>Physical Review E</i> , 2009 , 80, 066104	2.4	42
260	Arctic Oscillation signature in a Red Sea coral. <i>Geophysical Research Letters</i> , 2001 , 28, 2959-2962	4.9	42
259	Mid- to late Holocene changes in tropical Atlantic temperature seasonality and interannual to multidecadal variability documented in southern Caribbean corals. <i>Earth and Planetary Science Letters</i> , 2012 , 331-332, 187-200	5.3	40
258	Shift in ENSO Teleconnections Recorded by a Northern Red Sea Coral. <i>Journal of Climate</i> , 2003 , 16, 1414-1422	4.4	39
257	The Pliocene Model Intercomparison Project Phase 2: large-scale climate features and climate sensitivity. <i>Climate of the Past</i> , 2020 , 16, 2095-2123	3.9	39
256	A new global ice sheet reconstruction for the past 80 000 years. <i>Nature Communications</i> , 2021 , 12, 1199	17.4	38
255	Threshold in North Atlantic-Arctic Ocean circulation controlled by the subsidence of the Greenland-Scotland Ridge. <i>Nature Communications</i> , 2017 , 8, 15681	17.4	37
254	Response of Atlantic overturning to future warming in a coupled atmosphere-ocean-ice sheet model. <i>Geophysical Research Letters</i> , 2015 , 42, 6811-6818	4.9	37
253	Noise-Induced Transitions in a Simplified Model of the Thermohaline Circulation. <i>Journal of Physical Oceanography</i> , 2000 , 30, 1891-1900	2.4	37
252	Large-scale features and evaluation of the PMIP4-CMIP6 <i>midHolocene</i> simulations. <i>Climate of the Past</i> , 2020 , 16, 1847-1872	3.9	37
251	Lessons on Climate Sensitivity From Past Climate Changes. <i>Current Climate Change Reports</i> , 2016 , 2, 148-158	4.5	36
250	Linkages between atmospheric blocking, sea ice export through Fram Strait and the Atlantic Meridional Overturning Circulation. <i>Scientific Reports</i> , 2016 , 6, 32881	4.9	35

249	The glacial thermohaline circulation: Stable or unstable?. <i>Geophysical Research Letters</i> , 2002 , 29, 24-1	4.9	34
248	North Pacific freshwater events linked to changes in glacial ocean circulation. <i>Nature</i> , 2018 , 559, 241-245	50.4	33
247	Predicting the June 2013 European Flooding Based on Precipitation, Soil Moisture, and Sea Level Pressure. <i>Journal of Hydrometeorology</i> , 2015 , 16, 598-614	3.7	32
246	Winter and summer blocking variability in the North Atlantic region: Evidence from long-term observational and proxy data from southwestern Greenland. <i>Climate of the Past</i> , 2011 , 7, 543-555	3.9	32
245	A tropical mechanism for Northern Hemisphere deglaciation. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4, n/a-n/a	3.6	31
244	The Influence of a Near-Bottom Transport Parameterization on the Sensitivity of the Thermohaline Circulation. <i>Journal of Physical Oceanography</i> , 1998 , 28, 2095-2103	2.4	31
243	The PMIP4 Last Glacial Maximum experiments: preliminary results and comparison with the PMIP3 simulations. <i>Climate of the Past</i> , 2021 , 17, 1065-1089	3.9	31
242	Reconciling glacial Antarctic water stable isotopes with ice sheet topography and the isotopic paleothermometer. <i>Nature Communications</i> , 2018 , 9, 3537	17.4	31
241	Temperate rainforests near the South Pole during peak Cretaceous warmth. <i>Nature</i> , 2020 , 580, 81-86	50.4	30
240	Water isotope variations in the global ocean model MPI-OM. <i>Geoscientific Model Development</i> , 2012 , 5, 809-818	6.3	30
239	Atmospheric multidecadal variations in the North Atlantic realm: proxy data, observations, and atmospheric circulation model studies. <i>Climate of the Past</i> , 2007 , 3, 39-50	3.9	30
238	Effect of land albedo, CO ₂ , orography, and oceanic heat transport on extreme climates. <i>Climate of the Past</i> , 2006 , 2, 31-42	3.9	30
237	Using results from the PlioMIP ensemble to investigate the Greenland Ice Sheet during the mid-Pliocene Warm Period. <i>Climate of the Past</i> , 2015 , 11, 403-424	3.9	29
236	THIS ARTICLE HAS BEEN RETRACTED: What caused the mid-Holocene forest decline on the eastern Tibet-Qinghai Plateau?. <i>Global Ecology and Biogeography</i> , 2010 , 19, 278-286	6.1	29
235	Modelling tempo-spatial signatures of Heinrich Events: influence of the climatic background state. <i>Quaternary Science Reviews</i> , 2004 , 23, 521-527	3.9	29
234	Greenland Ice Sheet influence on Last Interglacial climate: global sensitivity studies performed with an atmosphere-ocean general circulation model. <i>Climate of the Past</i> , 2016 , 12, 1313-1338	3.9	29
233	Simulated oxygen isotopes in cave drip water and speleothem calcite in European caves. <i>Climate of the Past</i> , 2012 , 8, 1781-1799	3.9	28
232	Arctic river discharge trends since 7ka BP. <i>Global and Planetary Change</i> , 2011 , 79, 48-60	4.2	28

231	Interannual Variability of Rhine River Streamflow and Its Relationship with Large-Scale Anomaly Patterns in Spring and Autumn. <i>Journal of Hydrometeorology</i> , 2012 , 13, 172-188	3.7	28
230	Stability of the glacial thermohaline circulation and its dependence on the background hydrological cycle. <i>Climate Dynamics</i> , 2004 , 22, 527-538	4.2	28
229	Large-scale features of Last Interglacial climate: results from evaluating the <i>CCSM</i> simulations for the Coupled Model Intercomparison Project (CMIP6) Paleoclimate Modeling Intercomparison Project (PMIP4). <i>Climate of the Past</i> , 2021 , 17, 63-94	3.9	28
228	Influence of the opening of the Drake Passage on the Cenozoic Antarctic Ice Sheet: A modeling approach. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012 , 339-341, 66-73	2.9	27
227	Dynamics and predictability of Stommel box model. A phase-space perspective with implications for decadal climate variability. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1999 , 51, 326-336		27
226	Tropical Atlantic temperature seasonality at the end of the last interglacial. <i>Nature Communications</i> , 2015 , 6, 6159	17.4	26
225	Readjustment of glacial radiocarbon chronologies by self-consistent three-dimensional ocean circulation modeling. <i>Earth and Planetary Science Letters</i> , 2012 , 317-318, 177-184	5.3	26
224	Abrupt Climate and Weather Changes Across Time Scales. <i>Paleoceanography and Paleoclimatology</i> , 2020 , 35, e2019PA003782	3.3	26
223	DeepMIP: model intercomparison of early Eocene climatic optimum (EECO) large-scale climate features and comparison with proxy data. <i>Climate of the Past</i> , 2021 , 17, 203-227	3.9	26
222	Spatio-temporal variability of processes across Antarctic ice-bed-ocean interfaces. <i>Nature Communications</i> , 2018 , 9, 2289	17.4	25
221	Mid-Holocene regional reorganization of climate variability: Analyses of proxy data in the frequency domain. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010 , 298, 189-200	2.9	24
220	A Short Note on Marine Reservoir Age Simulations Used in IntCal20. <i>Radiocarbon</i> , 2020 , 62, 865-871	4.6	23
219	Climate signatures on decadal to interdecadal time scales as obtained from mollusk shells (<i>Arctica islandica</i>) from Iceland. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013 , 373, 152-162	2.9	23
218	Lessons from a high-CO ₂ world: an ocean view from ~ 3 million years ago. <i>Climate of the Past</i> , 2020 , 16, 1599-1615	3.9	23
217	Interannual to multidecadal Euro-Atlantic blocking variability during winter and its relationship with extreme low temperatures in Europe. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,621-13,636	4.4	22
216	Decadal variability of the Elbe River streamflow. <i>International Journal of Climatology</i> , 2011 , 31, 22-30	3.5	22
215	Seasonal prediction of Danube flow variability based on stable teleconnection with sea surface temperature. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	22
214	Solar-induced and internal climate variability at decadal time scales. <i>International Journal of Climatology</i> , 2005 , 25, 713-733	3.5	22

213	Solar and volcanic forcing of North Atlantic climate inferred from a process-based reconstruction. <i>Climate of the Past</i> , 2018 , 14, 1179-1194	3.9	22
212	Higher Laurentide and Greenland ice sheets strengthen the North Atlantic ocean circulation. <i>Climate Dynamics</i> , 2015 , 45, 139-150	4.2	21
211	Persistent drying in the tropics linked to natural forcing. <i>Nature Communications</i> , 2015 , 6, 7627	17.4	21
210	The role of the westerlies and orography in Asian hydroclimate since the late Oligocene. <i>Geology</i> , 2020 , 48, 728-732	5	21
209	Centennial- to millennial-scale monsoon changes since the last deglaciation linked to solar activities and North Atlantic cooling. <i>Climate of the Past</i> , 2020 , 16, 315-324	3.9	21
208	Evaluation of FESOM2.0 Coupled to ECHAM6.3: Preindustrial and HighResMIP Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3794-3815	7.1	21
207	Evaluation of a Finite-Element Sea-Ice Ocean Model (FESOM) set-up to study the interannual to decadal variability in the deep-water formation rates. <i>Ocean Dynamics</i> , 2013 , 63, 347-370	2.3	21
206	Reconciling Blling Warmth with peak deglacial meltwater discharge. <i>Paleoceanography</i> , 2000 , 15, 537-540		21
205	On the parameterisation of oceanic sensible heat loss to the atmosphere and to ice in an ice-covered mixed layer in winter. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999 , 46, 1385-1425	2.3	21
204	Impact of Weddell Sea shelf progradation on Antarctic bottom water formation during the Miocene. <i>Paleoceanography</i> , 2017 , 32, 304-317		20
203	Enhanced North Pacific deep-ocean stratification by stronger intermediate water formation during Heinrich Stadial 1. <i>Nature Communications</i> , 2019 , 10, 656	17.4	20
202	Last interglacial temperature seasonality reconstructed from tropical Atlantic corals. <i>Earth and Planetary Science Letters</i> , 2016 , 449, 418-429	5.3	20
201	The relative role of oceanic heat transport and orography on glacial climate. <i>Quaternary Science Reviews</i> , 2006 , 25, 832-845	3.9	20
200	Effects of mid-Holocene river runoff on the Arctic ocean/sea-ice system: a numerical model study. <i>Holocene</i> , 2003 , 13, 335-342	2.6	20
199	Sea level fall during glaciation stabilized atmospheric CO by enhanced volcanic degassing. <i>Nature Communications</i> , 2017 , 8, 15867	17.4	19
198	Astronomically paced changes in deep-water circulation in the western North Atlantic during the middle Eocene. <i>Earth and Planetary Science Letters</i> , 2018 , 484, 329-340	5.3	18
197	Climate-vegetation modelling and fossil plant data suggest low atmospheric CO ₂ in the late Miocene. <i>Climate of the Past</i> , 2015 , 11, 1701-1732	3.9	18
196	Past megadroughts in central Europe were longer, more severe and less warm than modern droughts. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	18

195	Estimates of late Cenozoic climate change relevant to Earth surface processes in tectonically active orogens. <i>Earth Surface Dynamics</i> , 2018 , 6, 271-301	3.8	18
194	Simulating climate and stable water isotopes during the Last Interglacial using a coupled climate-isotope model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 2027-2045	7.1	17
193	Glacial shortcut of Arctic sea-ice transport. <i>Earth and Planetary Science Letters</i> , 2012 , 357-358, 257-267	5.3	17
192	Water isotopes & climate relationships for the mid-Holocene and preindustrial period simulated with an isotope-enabled version of MPI-ESM. <i>Climate of the Past</i> , 2019 , 15, 1913-1937	3.9	17
191	Biome changes and their inferred climatic drivers in northern and eastern continental Asia at selected times since 40 cal ka bp. <i>Vegetation History and Archaeobotany</i> , 2018 , 27, 365-379	2.6	16
190	Ocean and climate response to North Atlantic seaway changes at the onset of long-term Eocene cooling. <i>Earth and Planetary Science Letters</i> , 2018 , 498, 185-195	5.3	16
189	Dominant modes of Diurnal Temperature Range variability over Europe and their relationships with large-scale atmospheric circulation and sea surface temperature anomaly patterns. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		16
188	Controls of Caribbean surface hydrology during the mid- to late Holocene: insights from monthly resolved coral records. <i>Climate of the Past</i> , 2013 , 9, 841-858	3.9	16
187	Sensitivity of the thermohaline circulation in coupled oceanic GCM & atmospheric EBM experiments. <i>Climate Dynamics</i> , 1996 , 12, 403-416	4.2	16
186	Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models. <i>Climate of the Past</i> , 2020 , 16, 1777-1805	3.9	16
185	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5015-5061	6.8	16
184	Modelling $\delta^{13}\text{C}$ in benthic foraminifera: Insights from model sensitivity experiments. <i>Marine Micropaleontology</i> , 2014 , 112, 50-61	1.7	15
183	Late Cretaceous climate simulations with different CO ₂ levels and subarctic gateway configurations: A model-data comparison. <i>Paleoceanography</i> , 2017 , 32, 980-998		15
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85	A multi-model assessment of last interglacial temperatures		4
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31	Winter and summer blocking variability in the North Atlantic region Evidence from long-term observational and proxy data from southwestern Greenland		1
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