Gerrit Lohmann

List of Publications by Year in Descending Order

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	Impact of paleoclimate on present and future evolution of the Greenland Ice Sheet.. *PLoS ONE*, **2022**, 17, e0259816	3.7	1
337	Simulating glacial dust changes in the Southern Hemisphere using ECHAM6.3-HAM2.3. *Climate of the Past*, **2022**, 18, 67-87	3.9	1
336	Ice sheet decline and rising atmospheric CO2 control AMOC sensitivity to deglacial meltwater discharge. *Global and Planetary Change*, **2022**, 210, 103755	4.2	0
335	On Timescales and Reversibility of the Ocean's Response to Enhanced Greenland Ice Sheet Melting in Comprehensive Climate Models. *Geophysical Research Letters*, **2022**, 49,	4.9	0
334	Variability and extremes: statistical validation of the Alfred Wegener Institute Earth System Model (AWI-ESM). *Geoscientific Model Development*, **2022**, 15, 1803-1820	6.3	0
333	PISM-LakeCC: Implementing an adaptive proglacial lake boundary in an ice sheet model. *Cryosphere* , **2022**, 16, 941-965	5.5	3
332	Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks.. *Nature Communications*, **2022**, 13, 1306	17.4	4
331	Evaluating seasonal sea-ice cover over the Southern Ocean at the Last Glacial Maximum. *Climate of the Past*, **2022**, 18, 845-862	3.9	0
330	Calendar effects on surface air temperature and precipitation based on model-ensemble equilibrium and transient simulations from PMIP4 and PACMEDY. *Climate of the Past*, **2022**, 18, 1047-1070	3.9	1
329	Simulation of Arctic sea ice within the DeepMIP Eocene ensemble: Thresholds, seasonality and factors controlling sea ice development. *Global and Planetary Change*, **2022**, 214, 103848	4.2	
328	Impact of Eurasian autumn snow on the winter North Atlantic Oscillation in seasonal forecasts of the 20th century. *Weather and Climate Dynamics*, **2021**, 2, 1245-1261	3.3	
327	Reduced El Niño variability in the mid-Pliocene according to the PlioMIP2 ensemble. *Climate of the Past*, **2021**, 17, 2427-2450	3.9	2
326	Continuous monitoring of surface water vapour isotopic compositions at Neumayer Station III, East Antarctica. *Cryosphere*, **2021**, 15, 4745-4767	5.5	2
325	Evaluation of lipid biomarkers as proxies for sea ice and ocean temperatures along the Antarctic continental margin. *Climate of the Past*, **2021**, 17, 2305-2326	3.9	0
324	Mathematics and Climate Change **2021**, 1-32		
323	Resolution of the atmospheric model matters for the Northern Hemisphere Mid-Holocene climate. *Dynamics of Atmospheres and Oceans*, **2021**, 93, 101206	1.9	1
322	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. *Atmospheric Chemistry and Physics*, **2021**, 21, 5015-5061	6.8	16

321	Past megadroughts in central Europe were longer, more severe and less warm than modern droughts. *Communications Earth & Environment*, **2021**, 2,	6.1	18
320	Early-onset of Atlantic Meridional Overturning Circulation weakening in response to atmospheric CO2 concentration. *Npj Climate and Atmospheric Science*, **2021**, 4,	8	2
319	Exploring the role of temperature in observed inter-population differences of Atlantic cod (Gadus morhua) growth with a 4-dimensional modelling approach. *ICES Journal of Marine Science*, **2021**, 78, 1519-1529	2.7	
318	Nonmonotonic Change of the Arctic Ocean Freshwater Storage Capability in a Warming Climate. *Geophysical Research Letters*, **2021**, 48, e2020GL090951	4.9	4
317	Coupled climate-ice sheet modelling of MIS-13 reveals a sensitive Cordilleran Ice Sheet. *Global and Planetary Change*, **2021**, 200, 103474	4.2	2
316	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
315	Large-scale climate signals of a European oxygen isotope network from tree rings. *Climate of the Past*, **2021**, 17, 1005-1023	3.9	3
314	Simulating Miocene Warmth: Insights From an Opportunistic Multi-Model Ensemble (MioMIP1). *Paleoceanography and Paleoclimatology*, **2021**, 36, e2020PA004054	3.3	12
313	The diurnal Energy Balance Model (dEBM): a convenient surface mass balance solution for ice sheets in Earth system modeling. *Cryosphere*, **2021**, 15, 2295-2313	5.5	3
312	Interannual to millennial-scale variability of River Ammer floods and its relationship with solar forcing. *International Journal of Climatology*, **2021**, 41, E644	3.5	3
311	Opening of the Fram Strait led to the establishment of a modern-like three-layer stratification in the Arctic Ocean during the Miocene. *Arktos*, **2021**, 7, 1	0.9	3
310	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
309	Mathematics and Climate Change **2021**, 2217-2248		
308	A Synoptic Scale Perspective on Greenland Ice Core δ18O Variability and Related Teleconnection Patterns. *Atmosphere*, **2021**, 12, 294	2.7	1
307	Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2. *Climate of the Past*, **2021**, 17, 529-543	3.9	11
306	The impact of non-breaking surface waves in upper-ocean temperature simulations of the Last Glacial Maximum. *Environmental Research Letters*, **2021**, 16, 034008	6.2	
305	A new global ice sheet reconstruction for the past 80 000 years. *Nature Communications*, **2021**, 12, 1199	17.4	38
304	Sensitivity of Northern Hemisphere climate to ice–ocean interface heat flux parameterizations. *Geoscientific Model Development*, **2021**, 14, 4891-4908	6.3	3

303	Mid-Pliocene West African Monsoon rainfall as simulated in the PlioMIP2 ensemble. *Climate of the Past*, **2021**, 17, 1777-1794	3.9	3
302	Evaluation of Machine Learning Predictions of a Highly Resolved Time Series of Chlorophyll-a Concentration. *Applied Sciences (Switzerland)*, **2021**, 11, 7208	2.6	2
301	High-resolution marine data and transient simulations support orbital forcing of ENSO amplitude since the mid-Holocene. *Quaternary Science Reviews*, **2021**, 268, 107125	3.9	3
300	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
299	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
298	A new perspective on permafrost boundaries in France during the Last Glacial Maximum. *Climate of the Past*, **2021**, 17, 2559-2576	3.9	3
297	Evaluating the large-scale hydrological cycle response within the Pliocene Model Intercomparison Project Phase 2 (PlioMIP2) ensemble. *Climate of the Past*, **2021**, 17, 2537-2558	3.9	2
296	Concept of a Sino-German Summer School on Multiscale Processes in Oceans and the Atmosphere. *Challenges*, **2020**, 11, 24	3.4	
295	The role of the westerlies and orography in Asian hydroclimate since the late Oligocene. *Geology*, **2020**, 48, 728-732	5	21
294	Simulated Thermohaline Fingerprints in Response to Different Greenland-Scotland Ridge and Fram Strait Subsidence Histories. *Paleoceanography and Paleoclimatology*, **2020**, 35, e2019PA003842	3.3	8
293	A Short Note on Marine Reservoir Age Simulations Used in IntCal20. *Radiocarbon*, **2020**, 62, 865-871	4.6	23
292	Early-Holocene simulations using different forcings and resolutions in AWI-ESM. *Holocene*, **2020**, 30, 996-1015	2.6	13
291	Groß, windgetriebene Meeresströmungen verschieben sich polwärts. *Physik in Unserer Zeit*, **2020**, 51, 113-114	0.1	
290	Poleward Shift of the Major Ocean Gyres Detected in a Warming Climate. *Geophysical Research Letters*, **2020**, 47, e2019GL085868	4.9	46
289	LakeCC: a tool for efficiently identifying lake basins with application to palaeogeographic reconstructions of North America. *Journal of Quaternary Science*, **2020**, 35, 422-432	2.3	5
288	Centennial- to millennial-scale monsoon changes since the last deglaciation linked to solar activities and North Atlantic cooling. *Climate of the Past*, **2020**, 16, 315-324	3.9	21
287	Temperate rainforests near the South Pole during peak Cretaceous warmth. *Nature*, **2020**, 580, 81-86	50.4	30
286	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

285	Sensitivity of mid-Pliocene climate to changes in orbital forcing and PlioMIP's boundary conditions. *Climate of the Past*, **2020**, 16, 1643-1665	3.9	6
284	A Bayesian framework for emergent constraints: case studies of climate sensitivity with PMIP. *Climate of the Past*, **2020**, 16, 1715-1735	3.9	8
283	Seasonal reconstructions coupling ice core data and an isotope-enabled climate model methodological implications of seasonality, climate modes and selection of proxy data. *Climate of the Past*, **2020**, 16, 1737-1758	3.9	5
282	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
281	Large-scale features and evaluation of the PMIP4-CMIP6 <i>midHolocene</i> simulations. *Climate of the Past*, **2020**, 16, 1847-1872	3.9	37
280	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
279	Aridity synthesis for eight selected key regions of the global climate system during the last 60 000 years. *Climate of the Past*, **2020**, 16, 2221-2238	3.9	9
278	Contribution of the coupled atmosphere Ocean Sea ice Vegetation model COSMOS to the PlioMIP2. *Climate of the Past*, **2020**, 16, 2275-2323	3.9	9
277	Evaluation of Arctic warming in mid-Pliocene climate simulations. *Climate of the Past*, **2020**, 16, 2325-2341	3.9	8
276	Sea ice dynamics in the Bransfield Strait, Antarctic Peninsula, during the past 240 years: a multi-proxy intercomparison study. *Climate of the Past*, **2020**, 16, 2459-2483	3.9	5
275	Eurasian autumn snow link to winter North Atlantic Oscillation is strongest for Arctic warming periods. *Earth System Dynamics*, **2020**, 11, 509-524	4.8	8
274	GrSMBMIP: intercomparison of the modelled 1980 2012 surface mass balance over the Greenland Ice Sheet. *Cryosphere*, **2020**, 14, 3935-3958	5.5	43
273	Temperatures from energy balance models: the effective heat capacity matters. *Earth System Dynamics*, **2020**, 11, 1195-1208	4.8	5
272	Anti-Phased Miocene Ice Volume and CO2 Changes by Transient Antarctic Ice Sheet Variability. *Paleoceanography and Paleoclimatology*, **2020**, 35, e2020PA003971	3.3	3
271	Tropical Expansion Driven by Poleward Advancing Midlatitude Meridional Temperature Gradients. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD033158	4.4	10
270	AMOC Recovery in a Multicentennial Scenario Using a Coupled Atmosphere-Ocean-Ice Sheet Model. *Geophysical Research Letters*, **2020**, 47, e2019GL086810	4.9	7
269	Drier tropical and subtropical Southern Hemisphere in the mid-Pliocene Warm Period. *Scientific Reports*, **2020**, 10, 13458	4.9	8
268	Evolution of the Upper Ocean Stratification in the Japan Sea Since the Last Glacial. *Geophysical Research Letters*, **2020**, 47, e2020GL088255	4.9	3

267	Abrupt Climate and Weather Changes Across Time Scales. *Paleoceanography and Paleoclimatology*, **2020**, 35, e2019PA003782	3.3	26
266	Millennial-scale variations in sedimentary oxygenation in the western subtropical North Pacific and its links to North Atlantic climate. *Climate of the Past*, **2020**, 16, 387-407	3.9	10
265	Transient Variability of the Miocene Antarctic Ice Sheet Smaller Than Equilibrium Differences. *Geophysical Research Letters*, **2019**, 46, 4288-4298	4.9	9
264	An interactive visual analysis tool for investigating teleconnections in climate simulations. *Environmental Earth Sciences*, **2019**, 78, 1	2.9	1
263	Was the Arctic Ocean ice free during the latest Cretaceous? The role of CO2 and gateway configurations. *Global and Planetary Change*, **2019**, 177, 201-212	4.2	11
262	Challenges in the Paleoclimatic Evolution of the Arctic and Subarctic Pacific since the Last Glacial Period□he Sino□erman Pacific□Arctic Experiment (SiGePAX). *Challenges*, **2019**, 10, 13	3.4	4
261	September Arctic sea ice minimum prediction □a skillful new statistical approach. *Earth System Dynamics*, **2019**, 10, 189-203	4.8	12
260	Effects of High Resolution and Spinup Time on Modeled North Atlantic Circulation. *Journal of Physical Oceanography*, **2019**, 49, 1159-1181	2.4	6
259	Enhanced North Pacific deep-ocean stratification by stronger intermediate water formation during Heinrich Stadial 1. *Nature Communications*, **2019**, 10, 656	17.4	20
258	Improving the Upper-Ocean Temperature in an Ocean Climate Model (FESOM 1.4): Shortwave Penetration Versus Mixing Induced by Nonbreaking Surface Waves. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 545-557	7.1	6
257	Climate Noise Influences Ice Sheet Mean State. *Geophysical Research Letters*, **2019**, 46, 9690-9699	4.9	2
256	Including the efficacy of land ice changes in deriving climate sensitivity from paleodata. *Earth System Dynamics*, **2019**, 10, 333-345	4.8	8
255	Evaluation of FESOM2.0 Coupled to ECHAM6.3: Preindustrial and HighResMIP Simulations. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 3794-3815	7.1	21
254	The sensitivity of Northern Hemisphere ice sheets to atmospheric forcing during the last glacial cycle using PMIP3 models. *Journal of Glaciology*, **2019**, 65, 645-661	3.4	10
253	Large-Scale Mode Impacts on the Sea Level over the Red Sea and Gulf of Aden. *Remote Sensing*, **2019**, 11, 2224	5	9
252	Geology datasets in North America, Greenland and surrounding areas for use with ice sheet models. *Earth System Science Data*, **2019**, 11, 375-391	10.5	7
251	Enhanced Mid-Latitude Meridional Heat Imbalance Induced by the Ocean. *Atmosphere*, **2019**, 10, 746	2.7	3
250	Water isotopes □climate relationships for the mid-Holocene and preindustrial period simulated with an isotope-enabled version of MPI-ESM. *Climate of the Past*, **2019**, 15, 1913-1937	3.9	17

249	Last Interglacial Hydroclimate Seasonality Reconstructed From Tropical Atlantic Corals. *Paleoceanography and Paleoclimatology*, **2018**, 33, 198-213	3.3	9
248	Biome changes and their inferred climatic drivers in northern and eastern continental Asia at selected times since 40 cal ka bp. *Vegetation History and Archaeobotany*, **2018**, 27, 365-379	2.6	16
247	Astronomically paced changes in deep-water circulation in the western North Atlantic during the middle Eocene. *Earth and Planetary Science Letters*, **2018**, 484, 329-340	5.3	18
246	Modeled Influence of Land Ice and CO2 on Polar Amplification and Paleoclimate Sensitivity During the Past 5 Million Years. *Paleoceanography and Paleoclimatology*, **2018**, 33, 381-394	3.3	8
245	Mild and Arid Climate in the Eastern Sahara-Arabian Desert During the Late Little Ice Age. *Geophysical Research Letters*, **2018**, 45, 7112-7119	4.9	8
244	Ocean and climate response to North Atlantic seaway changes at the onset of long-term Eocene cooling. *Earth and Planetary Science Letters*, **2018**, 498, 185-195	5.3	16
243	North Pacific freshwater events linked to changes in glacial ocean circulation. *Nature*, **2018**, 559, 241-245	50.4	33
242	Estimating Greenland surface melt is hampered by melt induced dampening of temperature variability. *Journal of Glaciology*, **2018**, 64, 227-235	3.4	3
241	Rapid shift and millennial-scale variations in Holocene North Pacific Intermediate Water ventilation. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5365-5370	11.5	8
240	Spatio-temporal variability of processes across Antarctic ice-bed-ocean interfaces. *Nature Communications*, **2018**, 9, 2289	17.4	25
239	ESD Ideas: The stochastic climate model shows that underestimated Holocene trends and variability represent two sides of the same coin. *Earth System Dynamics*, **2018**, 9, 1279-1281	4.8	5
238	Brief communication: An ice surface melt scheme including the diurnal cycle of solar radiation. *Cryosphere*, **2018**, 12, 3923-3930	5.5	6
237	North Atlantic Versus Global Control on Dansgaard-Oeschger Events. *Geophysical Research Letters*, **2018**, 45, 12,991	4.9	7
236	Solar and volcanic forcing of North Atlantic climate inferred from a process-based reconstruction. *Climate of the Past*, **2018**, 14, 1179-1194	3.9	22
235	Reconciling glacial Antarctic water stable isotopes with ice sheet topography and the isotopic paleothermometer. *Nature Communications*, **2018**, 9, 3537	17.4	31
234	Estimates of late Cenozoic climate change relevant to Earth surface processes in tectonically active orogens. *Earth Surface Dynamics*, **2018**, 6, 271-301	3.8	18
233	Atmospheric bridge on orbital time scales. *Theoretical and Applied Climatology*, **2017**, 128, 709-718	3	8
232	Abrupt North Atlantic circulation changes in response to gradual CO2 forcing in a glacial climate state. *Nature Geoscience*, **2017**, 10, 518-523	18.3	75

231	Inter-annual climate variability in Europe during the Oligocene icehouse. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2017**, 475, 140-153	2.9	10
230	Impact of Weddell Sea shelf progradation on Antarctic bottom water formation during the Miocene. *Paleoceanography*, **2017**, 32, 304-317		20
229	Summer temperature evolution on the Kamchatka Peninsula, Russian Far East, during the past 20 000 years. *Climate of the Past*, **2017**, 13, 359-377	3.9	13
228	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
227	The PMIP4 contribution to CMIP6 – Part 4: Scientific objectives and experimental design of the PMIP4-CMIP6 Last Glacial Maximum experiments and PMIP4 sensitivity experiments **2017**,		1
226	Late Cretaceous climate simulations with different CO2 levels and subarctic gateway configurations: A model-data comparison. *Paleoceanography*, **2017**, 32, 980-998		15
225	Marine radiocarbon reservoir age simulations for the past 50,000 years. *Geophysical Research Letters*, **2017**, 44, 8473-8480	4.9	44
224	Arctic Ocean sea ice cover during the penultimate glacial and the last interglacial. *Nature Communications*, **2017**, 8, 373	17.4	60
223	Sensitivity of open-water ice growth and ice concentration evolution in a coupled atmosphere-ocean-sea ice model. *Dynamics of Atmospheres and Oceans*, **2017**, 79, 10-30	1.9	8
222	Can tree-ring density data reflect summer temperature extremes and associated circulation patterns over Fennoscandia?. *Climate Dynamics*, **2017**, 49, 2721-2736	4.2	4
221	Sea level fall during glaciation stabilized atmospheric CO by enhanced volcanic degassing. *Nature Communications*, **2017**, 8, 15867	17.4	19
220	Threshold in North Atlantic-Arctic Ocean circulation controlled by the subsidence of the Greenland-Scotland Ridge. *Nature Communications*, **2017**, 8, 15681	17.4	37
219	Links between central Greenland stable isotopes, blocking and extreme climate variability over Europe at decadal to multidecadal time scales. *Climate Dynamics*, **2017**, 49, 649-663	4.2	5
218	Simulating climate and stable water isotopes during the Last Interglacial using a coupled climate-isotope model. *Journal of Advances in Modeling Earth Systems*, **2017**, 9, 2027-2045	7.1	17
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	chapter 3 The Seasonal Sea-Ice Zone in the Glacial Southern Ocean as a Carbon Sink **2017**, 63-96		
215	Intensification and poleward shift of subtropical western boundary currents in a warming climate. *Journal of Geophysical Research: Oceans*, **2016**, 121, 4928-4945	3.3	114
214	Reorganization of the North Atlantic Oscillation during early Holocene deglaciation. *Nature Geoscience*, **2016**, 9, 602-605	18.3	77

213	Evidence for ice-free summers in the late Miocene central Arctic Ocean. *Nature Communications*, **2016**, 7, 11148	17.4	80
212	Equatorial Pacific forcing of western Amazonian precipitation during Heinrich Stadial 1. *Scientific Reports*, **2016**, 6, 35866	4.9	11
211	Deglacial biogenic opal peaks revealing enhanced Southern Ocean upwelling during the last 513 ka. *Quaternary International*, **2016**, 425, 445-452	2	6
210	Linkages between atmospheric blocking, sea ice export through Fram Strait and the Atlantic Meridional Overturning Circulation. *Scientific Reports*, **2016**, 6, 32881	4.9	35
209	Lessons on Climate Sensitivity From Past Climate Changes. *Current Climate Change Reports*, **2016**, 2, 148-158	3	36
208	Simulated response of the mid-Holocene Atlantic meridional overturning circulation in ECHAM6-FESOM/MPIOM. *Journal of Geophysical Research: Oceans*, **2016**, 121, 6444-6469	3.3	13
207	Last interglacial temperature seasonality reconstructed from tropical Atlantic corals. *Earth and Planetary Science Letters*, **2016**, 449, 418-429	5.3	20
206	Ocean-atmosphere dynamics changes associated with prominent ocean surface turbulent heat fluxes trends during 1958–2013. *Ocean Dynamics*, **2016**, 66, 353-365	2.3	9
205	Greenland Ice Sheet influence on Last Interglacial climate: global sensitivity studies performed with an atmosphere–ocean general circulation model. *Climate of the Past*, **2016**, 12, 1313-1338	3.9	29
204	The PMIP4 contribution to CMIP6 – Part 2: Two Interglacials, Scientific Objective and Experimental Design for Holocene and Last Interglacial Simulations **2016**,		7
203	The effect of a dynamic soil scheme on the climate of the mid-Holocene and the Last Glacial Maximum. *Climate of the Past*, **2016**, 12, 151-170	3.9	14
202	Atmospheric circulation patterns associated with the variability of River Ammer floods: evidence from observed and proxy data. *Climate of the Past*, **2016**, 12, 377-385	3.9	12
201	Glacial–interglacial changes in H₂¹⁸O, HDO and deuterium excess – results from the fully coupled ECHAM5/MPI-OM Earth system model. *Geoscientific Model Development*, **2016**, 9, 647-670	6.3	47
200	Ocean temperature thresholds for Last Interglacial West Antarctic Ice Sheet collapse. *Geophysical Research Letters*, **2016**, 43, 2675-2682	4.9	46
199	Response of Central European SST to atmospheric pCO2 forcing during the Oligocene – A combined proxy data and numerical climate model approach. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2016**, 459, 552-569	2.9	15
198	Higher Laurentide and Greenland ice sheets strengthen the North Atlantic ocean circulation. *Climate Dynamics*, **2015**, 45, 139-150	4.2	21
197	Predicting the June 2013 European Flooding Based on Precipitation, Soil Moisture, and Sea Level Pressure. *Journal of Hydrometeorology*, **2015**, 16, 598-614	3.7	32
196	Persistent drying in the tropics linked to natural forcing. *Nature Communications*, **2015**, 6, 7627	17.4	21

195	North-West African Hydrologic Changes in the Holocene: A Combined Isotopic Data and Model Approach. *SpringerBriefs in Earth System Sciences*, **2015**, 109-114	1	
194	The seasonal sea-ice zone in the glacial Southern Ocean as a carbon sink. *Nature Communications*, **2015**, 6, 8136	17.4	45
193	Possible North Atlantic origin for changes in ENSO properties during the 1970s. *Climate Dynamics*, **2015**, 44, 925-935	4.2	4
192	Climate-vegetation modelling and fossil plant data suggest low atmospheric CO₂ in the late Miocene. *Climate of the Past*, **2015**, 11, 1701-1732	3.9	18
191	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
190	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
189	Effect of Vegetation on the Late Miocene Ocean Circulation. *Journal of Marine Science and Engineering*, **2015**, 3, 1311-1333	2.4	8
188	Response of Atlantic overturning to future warming in a coupled atmosphere-ocean-ice sheet model. *Geophysical Research Letters*, **2015**, 42, 6811-6818	4.9	37
187	Tropical Atlantic temperature seasonality at the end of the last interglacial. *Nature Communications* , **2015**, 6, 6159	17.4	26
186	Holocene Environmental Variability in the Arctic Gateway. *SpringerBriefs in Earth System Sciences*, **2015**, 37-42	1	1
185	Progress in Earth System Science: What Does It Take to Make Our Ideas Clear?. *Springer Earth System Sciences*, **2015**, 25-35	0.3	
184	Earth System Science Past Experiences and Future Trends. *Springer Earth System Sciences*, **2015**, 3-7	0.3	
183	Integration of Passive Tracers in a Three-Dimensional Ice Sheet Model. *Springer Earth System Sciences*, **2015**, 161-170	0.3	1
182	Abrupt glacial climate shifts controlled by ice sheet changes. *Nature*, **2014**, 512, 290-4	50.4	153
181	Modelling δ13C in benthic foraminifera: Insights from model sensitivity experiments. *Marine Micropaleontology*, **2014**, 112, 50-61	1.7	15
180	Temperature trends during the Present and Last Interglacial periods – a multi-model-data comparison. *Quaternary Science Reviews*, **2014**, 99, 224-243	3.9	42
179	Cenozoic climate changes: A review based on time series analysis of marine benthic δ18O records. *Reviews of Geophysics*, **2014**, 52, 333-374	23.1	92
178	Millennial-scale variability in Antarctic ice-sheet discharge during the last deglaciation. *Nature*, **2014** , 510, 134-8	50.4	140

177	Daily to intraseasonal oscillations at Antarctic research station Neumayer. *Antarctic Science*, **2014**, 26, 193-204	1.7	4
176	Distinct modes of East Asian Winter Monsoon documented by a southern Red Sea coral record. *Journal of Geophysical Research: Oceans*, **2014**, 119, 1517-1533	3.3	8
175	Evaluation of Labrador Sea Water formation in a global Finite-Element Sea-Ice Ocean Model setup, based on a comparison with observational data. *Journal of Geophysical Research: Oceans*, **2014**, 119, 1644-1667	3.3	10
174	Semi-Lagrangian transport of oxygen isotopes in polythermal ice sheets: implementation and first results. *Geoscientific Model Development*, **2014**, 7, 1395-1408	6.3	5
173	Evaluating the dominant components of warming in Pliocene climate simulations. *Climate of the Past*, **2014**, 10, 79-90	3.9	47
172	Interannual to multidecadal Euro-Atlantic blocking variability during winter and its relationship with extreme low temperatures in Europe. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 13,621-13,636	4.4	22
171	The Holocene temperature conundrum. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3501-5	11.5	198
170	Climate warming during Antarctic ice sheet expansion at the Middle Miocene transition. *Nature Geoscience*, **2014**, 7, 376-381	18.3	84
169	Ice sheet dynamics within an earth system model: downscaling, coupling and first results. *Geoscientific Model Development*, **2014**, 7, 2003-2013	6.3	5
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