

Daniel J Lunt

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

199
papers

9,727
citations

59
h-index

92
g-index

251
ext. papers

11,634
ext. citations

7.9
avg, IF

6.24
L-index

#	Paper	IF	Citations
199	Future climate forcing potentially without precedent in the last 420 million years. <i>Nature Communications</i> , 2017 , 8, 14845	17.4	290
198	Changing atmospheric CO2 concentration was the primary driver of early Cenozoic climate. <i>Nature</i> , 2016 , 533, 380-4	50.4	243
197	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
196	A new global biome reconstruction and data-model comparison for the Middle Pliocene. <i>Global Ecology and Biogeography</i> , 2008 , 17, 432-447	6.1	229
195	Cretaceous sea-surface temperature evolution: Constraints from TEX 86 and planktonic foraminiferal oxygen isotopes. <i>Earth-Science Reviews</i> , 2017 , 172, 224-247	10.2	221
194	Plio-Pleistocene climate sensitivity evaluated using high-resolution CO2 records. <i>Nature</i> , 2015 , 518, 49-54	50.4	219
193	Making sense of palaeoclimate sensitivity. <i>Nature</i> , 2012 , 491, 683-91	50.4	208
192	Late Pliocene Greenland glaciation controlled by a decline in atmospheric CO2 levels. <i>Nature</i> , 2008 , 454, 1102-5	50.4	203
191	Earth system sensitivity inferred from Pliocene modelling and data. <i>Nature Geoscience</i> , 2010 , 3, 60-64	18.3	199
190	Climate model response from the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8320-8332	4.4	195
189	Imprints of glacial refugia in the modern genetic diversity of <i>Pinus sylvestris</i> . <i>Global Ecology and Biogeography</i> , 2006 , 15, 271-282	6.1	193
188	Climate model and proxy data constraints on ocean warming across the Paleocene-Eocene Thermal Maximum. <i>Earth-Science Reviews</i> , 2013 , 125, 123-145	10.2	170
187	Closure of the Panama Seaway during the Pliocene: implications for climate and Northern Hemisphere glaciation. <i>Climate Dynamics</i> , 2007 , 30, 1-18	4.2	161
186	A model-data comparison for a multi-model ensemble of early Eocene atmosphere-ocean simulations: EoMIP. <i>Climate of the Past</i> , 2012 , 8, 1717-1736	3.9	160
185	Assessing confidence in Pliocene sea surface temperatures to evaluate predictive models. <i>Nature Climate Change</i> , 2012 , 2, 365-371	21.4	144
184	Pliocene Model Intercomparison Project (PlioMIP): experimental design and boundary conditions (Experiment 1). <i>Geoscientific Model Development</i> , 2010 , 3, 227-242	6.3	144
183	Pliocene and Eocene provide best analogs for near-future climates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 13288-13293	11.5	137

182	Evolution of the Late Miocene Mediterranean-Atlantic gateways and their impact on regional and global environmental change. <i>Earth-Science Reviews</i> , 2015 , 150, 365-392	10.2	136
181	Pliocene Model Intercomparison Project (PlioMIP): experimental design and boundary conditions (Experiment 2). <i>Geoscientific Model Development</i> , 2011 , 4, 571-577	6.3	134
180	High-resolution simulations of the last glacial maximum climate over Europe: a solution to discrepancies with continental palaeoclimatic reconstructions?. <i>Climate Dynamics</i> , 2005 , 24, 577-590	4.2	131
179	A Tortonian (Late Miocene, 11.61–11.25Ma) global vegetation reconstruction. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011 , 300, 29-45	2.9	121
178	A multi-model assessment of last interglacial temperatures. <i>Climate of the Past</i> , 2013 , 9, 699-717	3.9	120
177	Palaeoclimate constraints on the impact of 2 °C anthropogenic warming and beyond. <i>Nature Geoscience</i> , 2018 , 11, 474-485	18.3	115
176	Challenges in quantifying Pliocene terrestrial warming revealed by data-model discord. <i>Nature Climate Change</i> , 2013 , 3, 969-974	21.4	110
175	Sea surface temperature of the mid-Piacenzian ocean: a data-model comparison. <i>Scientific Reports</i> , 2013 , 3, 2013	4.9	108
174	The BRIDGE HadCM3 family of climate models: HadCM3@Bristol v1.0. <i>Geoscientific Model Development</i> , 2017 , 10, 3715-3743	6.3	106
173	The PMIP4 contribution to CMIP6 [Part 1: Overview and over-arching analysis plan. <i>Geoscientific Model Development</i> , 2018 , 11, 1033-1057	6.3	106
172	Fire and fire-adapted vegetation promoted C4 expansion in the late Miocene. <i>New Phytologist</i> , 2012 , 195, 653-666	9.8	105
171	Human ecological niches and ranges during the LGM in Europe derived from an application of eco-cultural niche modeling. <i>Journal of Archaeological Science</i> , 2008 , 35, 481-491	2.9	103
170	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
169	How warm was the last interglacial? New model-data comparisons. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20130097	3	96
168	Descent toward the Icehouse: Eocene sea surface cooling inferred from GDGT distributions. <i>Paleoceanography</i> , 2015 , 30, 1000-1020		95
167	Palaeogeographic controls on climate and proxy interpretation. <i>Climate of the Past</i> , 2016 , 12, 1181-1193	3.9	93
166	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
165	A model for orbital pacing of methane hydrate destabilization during the Palaeogene. <i>Nature Geoscience</i> , 2011 , 4, 775-778	18.3	92

164	Sensitivity of Pliocene ice sheets to orbital forcing. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011 , 309, 98-110	2.9	91
163	CO ₂ -driven ocean circulation changes as an amplifier of Paleocene-Eocene thermal maximum hydrate destabilization. <i>Geology</i> , 2010 , 38, 875-878	5	91
162	The Pliocene Model Intercomparison Project (PlioMIP) Phase 2: scientific objectives and experimental design. <i>Climate of the Past</i> , 2016 , 12, 663-675	3.9	90
161	The Mediterranean hydrologic budget from a Late Miocene global climate simulation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007 , 251, 254-267	2.9	88
160	On the causes of mid-Pliocene warmth and polar amplification. <i>Earth and Planetary Science Letters</i> , 2012 , 321-322, 128-138	5.3	86
159	Are there pre-Quaternary geological analogues for a future greenhouse warming?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 933-56	3	82
158	Investigating the sensitivity of numerical model simulations of the modern state of the Greenland ice-sheet and its future response to climate change. <i>Cryosphere</i> , 2010 , 4, 397-417	5.5	80
157	Bunshade World—A fully coupled GCM evaluation of the climatic impacts of geoengineering. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a	4.9	80
156	Parameter estimation in an atmospheric GCM using the Ensemble Kalman Filter. <i>Nonlinear Processes in Geophysics</i> , 2005 , 12, 363-371	2.9	80
155	Past East Asian monsoon evolution controlled by paleogeography, not CO ₂ . <i>Science Advances</i> , 2019 , 5, eaax1697	14.3	79
154	The DeepMIP contribution to PMIP4: methodologies for selection, compilation and analysis of latest Paleocene and early Eocene climate proxy data, incorporating version 0.1 of the DeepMIP database. <i>Geoscientific Model Development</i> , 2019 , 12, 3149-3206	6.3	78
153	Introduction. Pliocene climate, processes and problems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 3-17	3	77
152	Hydrological and associated biogeochemical consequences of rapid global warming during the Paleocene-Eocene Thermal Maximum. <i>Global and Planetary Change</i> , 2017 , 157, 114-138	4.2	75
151	Quantification of the Greenland ice sheet contribution to Last Interglacial sea level rise. <i>Climate of the Past</i> , 2013 , 9, 621-639	3.9	74
150	Neogene ice volume and ocean temperatures: Insights from infaunal foraminiferal Mg/Ca paleothermometry. <i>Paleoceanography</i> , 2015 , 30, 1437-1454		73
149	Last interglacial temperature evolution – model inter-comparison. <i>Climate of the Past</i> , 2013 , 9, 605-619	3.9	72
148	The past is a guide to the future? Comparing Middle Pliocene vegetation with predicted biome distributions for the twenty-first century. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 189-204	3	72
147	Comparison of mid-Pliocene climate predictions produced by the HadAM3 and GCMAM3 General Circulation Models. <i>Global and Planetary Change</i> , 2009 , 66, 208-224	4.2	72

146	Past climates inform our future. <i>Science</i> , 2020 , 370,	33.3	70
145	The DeepMIP contribution to PMIP4: experimental design for model simulations of the EECO, PETM, and pre-PETM (version 1.0). <i>Geoscientific Model Development</i> , 2017 , 10, 889-901	6.3	62
144	A Palaeogene perspective on climate sensitivity and methane hydrate instability. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 2395-415	3	60
143	Effects of a melted greenland ice sheet on climate, vegetation, and the cryosphere. <i>Climate Dynamics</i> , 2004 , 23, 679-694	4.2	60
142	Climate Sensitivity on Geological Timescales Controlled by Nonlinear Feedbacks and Ocean Circulation. <i>Geophysical Research Letters</i> , 2019 , 46, 9880-9889	4.9	59
141	Assessing the regional disparities in geoengineering impacts. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	59
140	On the identification of a Pliocene time slice for data-model comparison. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120515	3	58
139	The modern dust cycle: Comparison of model results with observations and study of sensitivities. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 1-1-AAC 1-16		56
138	Changes in equatorial Pacific thermocline depth in response to Panamanian seaway closure: Insights from a multi-model study. <i>Earth and Planetary Science Letters</i> , 2012 , 317-318, 76-84	5.3	53
137	Mid-Pliocene climate modelled using the UK Hadley Centre Model: PlioMIP Experiments 1 and 2. <i>Geoscientific Model Development</i> , 2012 , 5, 1109-1125	6.3	52
136	Dust transport to Dome C, Antarctica, at the Last Glacial Maximum and present day. <i>Geophysical Research Letters</i> , 2001 , 28, 295-298	4.9	51
135	Uncertainties in the modelled CO ₂ threshold for Antarctic glaciation. <i>Climate of the Past</i> , 2014 , 10, 451-466	3.9	50
134	Sea surface temperatures of the mid-Piacenzian Warm Period: A comparison of PRISM3 and HadCM3. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011 , 309, 83-91	2.9	49
133	Asteroid impact, not volcanism, caused the end-Cretaceous dinosaur extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 17084-17093	11.5	48
132	Mid-pliocene Atlantic Meridional Overturning Circulation not unlike modern. <i>Climate of the Past</i> , 2013 , 9, 1495-1504	3.9	48
131	Pliocene climate and seasonality in North Atlantic shelf seas. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 85-108	3	48
130	Evaluating the dominant components of warming in Pliocene climate simulations. <i>Climate of the Past</i> , 2014 , 10, 79-90	3.9	47
129	Climatic effects of surface albedo geoengineering. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		47

128	Temperature trends during the Present and Last Interglacial periods – a multi-model-data comparison. <i>Quaternary Science Reviews</i> , 2014 , 99, 224-243	3.9	42
127	Nature of the Antarctic Peninsula Ice Sheet during the Pliocene: Geological evidence and modelling results compared. <i>Earth-Science Reviews</i> , 2009 , 94, 79-94	10.2	42
126	El Niño-Southern Oscillation, Pliocene climate and equifinality. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 127-56	3	42
125	Mid-latitude continental temperatures through the early Eocene in western Europe. <i>Earth and Planetary Science Letters</i> , 2017 , 460, 86-96	5.3	41
124	The Arctic cryosphere in the Mid-Pliocene and the future. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 49-67	3	41
123	The Miocene: The Future of the Past. <i>Paleoceanography and Paleoclimatology</i> , 2021 , 36, e2020PA004037	3.3	41
122	Ecological niche modelling does not support climatically-driven dinosaur diversity decline before the Cretaceous/Paleogene mass extinction. <i>Nature Communications</i> , 2019 , 10, 1091	17.4	40
121	Paleogeographic controls on the onset of the Antarctic circumpolar current. <i>Geophysical Research Letters</i> , 2013 , 40, 5199-5204	4.9	40
120	Effects of atmospheric dynamics and ocean resolution on bi-stability of the thermohaline circulation examined using the Grid ENabled Integrated Earth system modelling (GENIE) framework. <i>Climate Dynamics</i> , 2007 , 29, 591-613	4.2	40
119	Dust deposition and provenance at the Last Glacial Maximum and present day. <i>Geophysical Research Letters</i> , 2002 , 29, 42-1-42-4	4.9	40
118	A model-model and data-model comparison for the early Eocene hydrological cycle. <i>Climate of the Past</i> , 2016 , 12, 455-481	3.9	40
117	Qaidam Basin leaf fossils show northeastern Tibet was high, wet and cool in the early Oligocene. <i>Earth and Planetary Science Letters</i> , 2020 , 537, 116175	5.3	39
116	Mediterranean outflow pump: An alternative mechanism for the Lago-mare and the end of the Messinian Salinity Crisis. <i>Geology</i> , 2016 , 44, 523-526	5	39
115	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
114	An impulse response function for the long tail of excess atmospheric CO ₂ in an Earth system model. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 2-17	5.9	38
113	High temperatures in the terrestrial mid-latitudes during the early Palaeogene. <i>Nature Geoscience</i> , 2018 , 11, 766-771	18.3	38
112	The cause of Late Cretaceous cooling: A multimodel-proxy comparison. <i>Geology</i> , 2016 , 44, 963-966	5	36
111	Orbital control on late Miocene climate and the North African monsoon: insight from an ensemble of sub-precessional simulations. <i>Climate of the Past</i> , 2015 , 11, 1271-1295	3.9	34

110	The relative roles of CO ₂ and palaeogeography in determining late Miocene climate: results from a terrestrial model-data comparison. <i>Climate of the Past</i> , 2012 , 8, 1257-1285	3.9	33
109	The fate of the Greenland Ice Sheet in a geoengineered, high CO ₂ world. <i>Environmental Research Letters</i> , 2009 , 4, 045109	6.2	33
108	A methodology for targeting palaeo proxy data acquisition: A case study for the terrestrial late Miocene. <i>Earth and Planetary Science Letters</i> , 2008 , 271, 53-62	5.3	33
107	Investigating vegetation-climate feedbacks during the early Eocene. <i>Climate of the Past</i> , 2014 , 10, 419-436	3.9	31
106	Exploring uncertainties in the relationship between temperature, ice volume, and sea level over the past 50 million years. <i>Reviews of Geophysics</i> , 2012 , 50,	23.1	30
105	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
104	Modelling Late Oligocene C4 grasses and climate. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007 , 251, 239-253	2.9	29
103	Ice sheet model dependency of the simulated Greenland Ice Sheet in the mid-Pliocene. <i>Climate of the Past</i> , 2015 , 11, 369-381	3.9	29
102	Global mean surface temperature and climate sensitivity of the early Eocene Climatic Optimum (EECO), Paleocene-Eocene Thermal Maximum (PETM), and latest Paleocene. <i>Climate of the Past</i> , 2020 , 16, 1953-1968	3.9	29
101	Climatic shifts drove major contractions in avian latitudinal distributions throughout the Cenozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12895-12900	11.5	28
100	Hadley circulation and precipitation changes controlling black shale deposition in the Late Jurassic Boreal Seaway. <i>Paleoceanography</i> , 2016 , 31, 1041-1053		27
99	Changes in the occurrence of extreme precipitation events at the Paleocene-Eocene thermal maximum. <i>Earth and Planetary Science Letters</i> , 2018 , 501, 24-36	5.3	27
98	Quantifying the Mediterranean freshwater budget throughout the late Miocene: New implications for sapropel formation and the Messinian Salinity Crisis. <i>Earth and Planetary Science Letters</i> , 2017 , 472, 25-37	5.3	26
97	The impact of Cenozoic cooling on assemblage diversity in planktonic foraminifera. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371, 20150224	5.8	26
96	The Eocene-Oligocene transition: a review of marine and terrestrial proxy data, models and model-data comparisons. <i>Climate of the Past</i> , 2021 , 17, 269-315	3.9	26
95	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
94	Atmospheric and oceanic impacts of Antarctic glaciation across the Eocene-Oligocene transition. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	25
93	Mountain uplift and the glaciation of North America - a sensitivity study. <i>Climate of the Past</i> , 2010 , 6, 707-717	3.9	25

92	Placing our current 'hyperthermal' in the context of rapid climate change in our geological past. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	23
91	Changes in benthic ecosystems and ocean circulation in the Southeast Atlantic across Eocene Thermal Maximum 2. <i>Paleoceanography</i> , 2015 , 30, 1059-1077		22
90	Proxy evidence for state-dependence of climate sensitivity in the Eocene greenhouse. <i>Nature Communications</i> , 2020 , 11, 4436	17.4	22
89	Warm climates of the past--a lesson for the future?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20130146	3	21
88	Comparing transient, accelerated, and equilibrium simulations of the last 30 000 years with the GENIE-1 model. <i>Climate of the Past</i> , 2006 , 2, 221-235	3.9	21
87	Oligocene climate signals and forcings in Eurasia revealed by plant macrofossil and modelling results. <i>Gondwana Research</i> , 2018 , 61, 115-127	5.1	21
86	Ecosystem CO2 starvation and terrestrial silicate weathering: mechanisms and global-scale quantification during the late Miocene. <i>Journal of Ecology</i> , 2012 , 100, 31-41	6	20
85	Assessment of soil moisture fields from imperfect climate models with uncertain satellite observations. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 1545-1553	5.5	20
84	Orographic evolution of northern Tibet shaped vegetation and plant diversity in eastern Asia. <i>Science Advances</i> , 2021 , 7,	14.3	19
83	The impacts of Tibetan uplift on palaeoclimate proxies. <i>Geological Society Special Publication</i> , 2010 , 342, 279-291	1.7	18
82	Impact of meltwater on high-latitude early Last Interglacial climate. <i>Climate of the Past</i> , 2016 , 12, 1919-1932	3.9	18
81	Southern Hemisphere sea-surface temperatures during the Cenomanian-Turonian: Implications for the termination of Oceanic Anoxic Event 2. <i>Geology</i> , 2019 , 47, 131-134	5	17
80	Disentangling the roles of late Miocene palaeogeography and vegetation: Implications for climate sensitivity. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015 , 417, 17-34	2.9	17
79	Early Jurassic North Atlantic sea-surface temperatures from TEX86 palaeothermometry. <i>Sedimentology</i> , 2017 , 64, 215-230	3.3	17
78	Pliocene climate variability: Northern Annular Mode in models and tree-ring data. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011 , 309, 118-127	2.9	17
77	Precession driven changes in terrestrial organic matter input to the Eastern Mediterranean leading up to the Messinian Salinity Crisis. <i>Earth and Planetary Science Letters</i> , 2017 , 462, 199-211	5.3	16
76	Widespread Warming Before and Elevated Barium Burial During the Paleocene-Eocene Thermal Maximum: Evidence for Methane Hydrate Release?. <i>Paleoceanography and Paleoclimatology</i> , 2019 , 34, 546-566	3.3	16
75	Quantifying Uncertainty in Model Predictions for the Pliocene (Plio-QUMP): Initial results. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011 , 309, 128-140	2.9	15

74	Extinction intensity during Ordovician and Cenozoic glaciations explained by cooling and palaeogeography. <i>Nature Geoscience</i> , 2020 , 13, 65-70	18.3	15
73	An efficient method to generate a perturbed parameter ensemble of a fully coupled AOGCM without flux-adjustment. <i>Geoscientific Model Development</i> , 2013 , 6, 1447-1462	6.3	14
72	A model-data comparison for a multi-model ensemble of early Eocene atmosphere-ocean simulations: EoMIP		13
71	The relative roles of CO ₂ and palaeogeography in determining Late Miocene climate: results from a terrestrial model-data comparison		13
70	Unravelling the sources of carbon emissions at the onset of Oceanic Anoxic Event (OAE) 1a. <i>Earth and Planetary Science Letters</i> , 2020 , 530, 115947	5.3	13
69	Terrestrial environmental change across the onset of the PETM and the associated impact on biomarker proxies: A cautionary tale. <i>Global and Planetary Change</i> , 2019 , 181, 102991	4.2	12
68	The role of vegetation feedbacks on Greenland glaciation. <i>Climate Dynamics</i> , 2013 , 40, 2671-2686	4.2	12
67	Simulating Miocene Warmth: Insights From an Opportunistic Multi-Model Ensemble (MioMIP1). <i>Paleoceanography and Paleoclimatology</i> , 2021 , 36, e2020PA004054	3.3	12
66	Climatic drivers of latitudinal variation in Late Triassic tetrapod diversity. <i>Palaeontology</i> , 2021 , 64, 101-117		12
65	CLIMATE. How Antarctica got its ice. <i>Science</i> , 2016 , 352, 34-5	33.3	11
64	Emulation of long-term changes in global climate: application to the late Pliocene and future. <i>Climate of the Past</i> , 2017 , 13, 1539-1571	3.9	11
63	Assessing Mechanisms and Uncertainty in Modeled Climatic Change at the Eocene-Oligocene Transition. <i>Paleoceanography and Paleoclimatology</i> , 2019 , 34, 16-34	3.3	11
62	Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2. <i>Climate of the Past</i> , 2021 , 17, 529-543	3.9	11
61	Optimization of integrated Earth System Model components using Grid-enabled data management and computation. <i>Concurrency Computation Practice and Experience</i> , 2007 , 19, 153-165	1.4	10
60	Changes in the high-latitude Southern Hemisphere through the Eocene-Oligocene transition: a model-data comparison. <i>Climate of the Past</i> , 2020 , 16, 555-573	3.9	10
59	Key factors governing uncertainty in the response to sunshade geoengineering from a comparison of the GeoMIP ensemble and a perturbed parameter ensemble. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7946-7962	4.4	9
58	Absolute seasonal temperature estimates from clumped isotopes in bivalve shells suggest warm and variable greenhouse climate. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	9
57	Precessional Drivers of Late Miocene Mediterranean Sedimentary Sequences: African Summer Monsoon and Atlantic Winter Storm Tracks. <i>Paleoceanography and Paleoclimatology</i> , 2019 , 34, 1980-1994	4.3	9

56	Global warming and ocean stratification: A potential result of large extraterrestrial impacts. <i>Geophysical Research Letters</i> , 2017 , 44, 3841-3848	4.9	8
55	A new dust cycle model with dynamic vegetation: LPJ-dust version 1.0. <i>Geoscientific Model Development</i> , 2011 , 4, 85-105	6.3	8
54	Modelling ocean circulation, climate and oxygen isotopes in the ocean over the last 120 000 years		8
53	Hydrological impact of Middle Miocene Antarctic ice-free areas coupled to deep ocean temperatures. <i>Nature Geoscience</i> , 2021 , 14, 429-436	18.3	8
52	Deep ocean temperatures through time. <i>Climate of the Past</i> , 2021 , 17, 1483-1506	3.9	8
51	Eocene to Oligocene terrestrial Southern Hemisphere cooling caused by declining pCO ₂ . <i>Nature Geoscience</i> , 2021 , 14, 659-664	18.3	8
50	CMIP6/PMIP4 simulations of the mid-Holocene and Last Interglacial using HadGEM3: comparison to the pre-industrial era, previous model versions and proxy data. <i>Climate of the Past</i> , 2020 , 16, 1429-1450	3.9	7
49	Large-scale features of Pliocene climate: results from the Pliocene Model Intercomparison Project		7
48	The PMIP4 contribution to CMIP6 [Part 2: Two Interglacials, Scientific Objective and Experimental Design for Holocene and Last Interglacial Simulations 2016 ,		7
47	Sensitivity of the Greenland Ice Sheet to Interglacial Climate Forcing: MIS 5e Versus MIS 11. <i>Paleoceanography</i> , 2017 , 32, 1089-1101		6
46	Impact of global cooling on Early Cretaceous high pCO ₂ world during the Weissert Event. <i>Nature Communications</i> , 2021 , 12, 5411	17.4	6
45	The 'long tail' of anthropogenic CO ₂ decline in the atmosphere and its consequences for post-closure performance assessments for disposal of radioactive wastes. <i>Mineralogical Magazine</i> , 2015 , 79, 1613-1623	1.7	5
44	DeepMIP: Model intercomparison of early Eocene climatic optimum (EECO) large-scale climate features and comparison with proxy data		5
43	A return to large-scale features of Pliocene climate: the Pliocene Model Intercomparison Project Phase 2		5
42	Pliocene Model Intercomparison (PlioMIP) Phase 2: scientific objectives and experimental design		5
41	Supplementary material to 'Large-scale features of Pliocene climate: results from the Pliocene Model Intercomparison Project'		5
40	Uncertainties in the modelled CO ₂ threshold for Antarctic glaciation		5
39	Predicting sediment discharges and erosion rates in deep time examples from the late Cretaceous North American continent. <i>Basin Research</i> , 2020 , 32, 1547-1573	3.2	4

38	Orbital, tectonic and oceanographic controls on Pliocene climate and atmospheric circulation in Arctic Norway. <i>Global and Planetary Change</i> , 2018 , 161, 183-193	4.2	4
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35	Greenland Ice Sheet sensitivity and sea level contribution in the mid-Pliocene warm period □ Pliocene Ice Sheet Model Intercomparison Project PLISMIP		4
34	Palaeogeographic controls on climate and proxy interpretation		4
33	A multi-model assessment of last interglacial temperatures		4
32	The effect of more realistic forcings and boundary conditions on the modelled geometry and sensitivity of the Greenland ice-sheet		4
31	Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks.. <i>Nature Communications</i> , 2022 , 13, 1306	17.4	4
30	The Cenozoic history of palms: Global diversification, biogeography and the decline of megathermal forests. <i>Global Ecology and Biogeography</i> , 2022 , 31, 425-439	6.1	4
29	Mid-Pliocene climate modelled using the UK Hadley Centre Model: PlioMIP Experiments 1 and 2 2012 ,		3
28	Global mean surface temperature and climate sensitivity of the EECO, PETM and latest Paleocene		3
27	Orbital control on late Miocene climate and the North African monsoon: insight from an ensemble of sub-precessional simulations		3
26	Quantification of the Greenland ice sheet contribution to Last Interglacial sea-level rise		3
25	Mid-pliocene Atlantic meridional overturning circulation not unlike modern?		3
24	Simulation of the mid-Pliocene Warm Period using HadGEM3: experimental design and results from model□model and model□data comparison. <i>Climate of the Past</i> , 2021 , 17, 2139-2163	3.9	3
23	Simulating Miocene warmth: insights from an opportunistic Multi-Model ensemble (MioMIP1)		3
22	Mid-Pliocene West African Monsoon rainfall as simulated in the PlioMIP2 ensemble. <i>Climate of the Past</i> , 2021 , 17, 1777-1794	3.9	3
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