

# Jonathan Gregory

## List of Publications by Citations

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238  
papers

21,147  
citations

77  
h-index

141  
g-index

286  
ext. papers

23,167  
ext. citations

6.4  
avg, IF

6.83  
L-index

#	Paper	IF	Citations
238	The simulation of SST, sea ice extents and ocean heat transports in a version of the Hadley Centre coupled model without flux adjustments. <i>Climate Dynamics</i> , <b>2000</b> , 16, 147-168	4.2	2082
237	Investigating the Causes of the Response of the Thermohaline Circulation to Past and Future Climate Changes. <i>Journal of Climate</i> , <b>2006</b> , 19, 1365-1387	4.4	719
236	A new method for diagnosing radiative forcing and climate sensitivity. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	583
235	Climate response to increasing levels of greenhouse gases and sulphate aerosols. <i>Nature</i> , <b>1995</b> , 376, 501-504	50.4	568
234	The second Hadley Centre coupled ocean-atmosphere GCM: model description, spinup and validation. <i>Climate Dynamics</i> , <b>1997</b> , 13, 103-134	4.2	520
233	Forcing, feedbacks and climate sensitivity in CMIP5 coupled atmosphere-ocean climate models. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	490
232	Anthropogenic climate change for 1860 to 2100 simulated with the HadCM3 model under updated emissions scenarios. <i>Climate Dynamics</i> , <b>2003</b> , 20, 583-612	4.2	444
231	A model intercomparison of changes in the Atlantic thermohaline circulation in response to increasing atmospheric CO <sub>2</sub> concentration. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	420
230	The New Hadley Centre Climate Model (HadGEM1): Evaluation of Coupled Simulations. <i>Journal of Climate</i> , <b>2006</b> , 19, 1327-1353	4.4	406
229	Revisiting the Earth's sea-level and energy budgets from 1961 to 2008. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	358
228	Penetration of human-induced warming into the world's oceans. <i>Science</i> , <b>2005</b> , 309, 284-7	33.3	339
227	Land/sea warming ratio in response to climate change: IPCC AR4 model results and comparison with observations. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	279
226	A study of the general characteristics of proton-antiproton collisions at $\sqrt{s}=0.2$ to 0.9 TeV. <i>Nuclear Physics B</i> , <b>1990</b> , 335, 261-287	2.8	278
225	Evaluating adjusted forcing and model spread for historical and future scenarios in the CMIP5 generation of climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 1139-1150	4.4	264
224	Tropospheric Adjustment Induces a Cloud Component in CO <sub>2</sub> Forcing. <i>Journal of Climate</i> , <b>2008</b> , 21, 58-71	4.4	256
223	Mechanisms for the land/sea warming contrast exhibited by simulations of climate change. <i>Climate Dynamics</i> , <b>2008</b> , 30, 455-465	4.2	235
222	Energy budget constraints on climate response. <i>Nature Geoscience</i> , <b>2013</b> , 6, 415-416	18.3	228

221	Changing spatial structure of the thermohaline circulation in response to atmospheric CO2 forcing in a climate model. <i>Nature</i> , <b>1999</b> , 399, 572-575	50.4	222
220	Changes in daily precipitation under enhanced greenhouse conditions. <i>Climate Dynamics</i> , <b>1997</b> , 13, 667-680	4.4	216
219	An Observationally Based Estimate of the Climate Sensitivity. <i>Journal of Climate</i> , <b>2002</b> , 15, 3117-3121	4.4	215
218	Vertical heat transports in the ocean and their effect on time-dependent climate change. <i>Climate Dynamics</i> , <b>2000</b> , 16, 501-515	4.2	211
217	Response of the North Atlantic storm track to climate change shaped by ocean-atmosphere coupling. <i>Nature Geoscience</i> , <b>2012</b> , 5, 313-317	18.3	209
216	Contributions of Different Cloud Types to Feedbacks and Rapid Adjustments in CMIP5*. <i>Journal of Climate</i> , <b>2013</b> , 26, 5007-5027	4.4	209
215	The Dependence of Radiative Forcing and Feedback on Evolving Patterns of Surface Temperature Change in Climate Models. <i>Journal of Climate</i> , <b>2015</b> , 28, 1630-1648	4.4	206
214	Adjustments in the Forcing-Feedback Framework for Understanding Climate Change. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, 217-228	6.1	198
213	Climatology: threatened loss of the Greenland ice-sheet. <i>Nature</i> , <b>2004</b> , 428, 616	50.4	187
212	A Surface Energy Perspective on Climate Change. <i>Journal of Climate</i> , <b>2009</b> , 22, 2557-2570	4.4	186
211	Quantifying Carbon Cycle Feedbacks. <i>Journal of Climate</i> , <b>2009</b> , 22, 5232-5250	4.4	186
210	A Review of Uncertainties in Global Temperature Projections over the Twenty-First Century. <i>Journal of Climate</i> , <b>2008</b> , 21, 2651-2663	4.4	180
209	Elimination of the Greenland Ice Sheet in a High CO2 Climate. <i>Journal of Climate</i> , <b>2005</b> , 18, 3409-3427	4.4	178
208	The Role of Climate Sensitivity and Ocean Heat Uptake on AOGCM Transient Temperature Response. <i>Journal of Climate</i> , <b>2002</b> , 15, 124-130	4.4	165
207	Twentieth-Century Global-Mean Sea Level Rise: Is the Whole Greater than the Sum of the Parts?. <i>Journal of Climate</i> , <b>2013</b> , 26, 4476-4499	4.4	158
206	A comparison of extreme European daily precipitation simulated by a global and a regional climate model for present and future climates. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2001</b> , 127, 1005-1015	6.4	157
205	Mechanisms Determining the Atlantic Thermohaline Circulation Response to Greenhouse Gas Forcing in a Non-Flux-Adjusted Coupled Climate Model. <i>Journal of Climate</i> , <b>2001</b> , 14, 3102-3116	4.4	156
204	Ice-sheet contributions to future sea-level change. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2006</b> , 364, 1709-31	3	155

203	Transient climate response estimated from radiative forcing and observed temperature change. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		152
202	Production of low transverse energy clusters in collisions at $\sqrt{s}=0.2\text{--}0.9$ TeV and their interpretation in terms of QCD jets. <i>Nuclear Physics B</i> , <b>1988</b> , 309, 405-425	2.8	151
201	Observational Constraints on Past Attributable Warming and Predictions of Future Global Warming. <i>Journal of Climate</i> , <b>2006</b> , 19, 3055-3069	4.4	148
200	Summer Drought in Northern Midlatitudes in a Time-Dependent CO <sub>2</sub> Climate Experiment. <i>Journal of Climate</i> , <b>1997</b> , 10, 662-686	4.4	146
199	Origins of differences in climate sensitivity, forcing and feedback in climate models. <i>Climate Dynamics</i> , <b>2013</b> , 40, 677-707	4.2	143
198	Ice Sheet Model Intercomparison Project (ISMIP6) contribution to CMIP6. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 4521-4545	6.3	139
197	Changes in the occurrence of storm surges around the United Kingdom under a future climate scenario using a dynamic storm surge model driven by the Hadley Centre climate models. <i>Climate Dynamics</i> , <b>2001</b> , 18, 179-188	4.2	138
196	Concepts and Terminology for Sea Level: Mean, Variability and Change, Both Local and Global. <i>Surveys in Geophysics</i> , <b>2019</b> , 40, 1251-1289	7.6	135
195	Ocean heat uptake and its consequences for the magnitude of sea level rise and climate change. <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	135
194	The Climate Sensitivity and Its Components Diagnosed from Earth Radiation Budget Data. <i>Journal of Climate</i> , <b>2006</b> , 19, 39-52	4.4	130
193	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 3231-3296	6.3	130
192	Understanding Land-Sea Warming Contrast in Response to Increasing Greenhouse Gases. Part I: Transient Adjustment. <i>Journal of Climate</i> , <b>2009</b> , 22, 3079-3097	4.4	128
191	Comparison of results from several AOGCMs for global and regional sea-level change 1900-2100. <i>Climate Dynamics</i> , <b>2001</b> , 18, 225-240	4.2	123
190	Simulated future sea-level rise due to glacier melt based on regionally and seasonally resolved temperature changes. <i>Nature</i> , <b>1998</b> , 391, 474-476	50.4	121
189	Constraining climate forecasts: The role of prior assumptions. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	120
188	Modelling Antarctic and Greenland volume changes during the 20th and 21st centuries forced by GCM time slice integrations. <i>Global and Planetary Change</i> , <b>2004</b> , 42, 83-105	4.2	119
187	Sea-level rise by 2100. <i>Science</i> , <b>2013</b> , 342, 1445	33.3	117
186	Global reconstruction of historical ocean heat storage and transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 1126-1131	11.5	116

185	The climate response to CO2 of the Hadley Centre coupled AOGCM with and without flux adjustment. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 1943-1946	4.9	110
184	The effects of climate change on storm surges around the United Kingdom. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2005</b> , 363, 1313-28	3	110
183	Recent and future changes in Arctic sea ice simulated by the HadCM3 AOGCM. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 28-1-28-4	4.9	108
182	The inconstancy of the transient climate response parameter under increasing CO2. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	102
181	Variation in climate sensitivity and feedback parameters during the historical period. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3911-3920	4.9	100
180	The impact of natural and anthropogenic forcings on climate and hydrology since 1550. <i>Climate Dynamics</i> , <b>2006</b> , 28, 3-34	4.2	98
179	Beauty production at the CERN pp collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 256, 121-128	4.2	96
178	A large ozone-circulation feedback and its implications for global warming assessments. <i>Nature Climate Change</i> , <b>2015</b> , 5, 41-45	21.4	94
177	Greenland ice sheet surface mass balance: evaluating simulations and making projections with regional climate models. <i>Cryosphere</i> , <b>2012</b> , 6, 1275-1294	5.5	94
176	Irreducible uncertainty in near-term climate projections. <i>Climate Dynamics</i> , <b>2016</b> , 46, 3807-3819	4.2	93
175	Application of Markov models to area-average daily precipitation series and interannual variability in seasonal totals. <i>Climate Dynamics</i> , <b>1993</b> , 8, 299-310	4.2	92
174	Understanding and Projecting Sea Level Change. <i>Oceanography</i> , <b>2011</b> , 24, 130-143	2.3	91
173	Processes Governing the Recovery of a Perturbed Thermohaline Circulation in HadCM3. <i>Journal of Climate</i> , <b>2002</b> , 15, 764-780	4.4	90
172	Thresholds for irreversible decline of the Greenland ice sheet. <i>Climate Dynamics</i> , <b>2010</b> , 35, 1049-1057	4.2	88
171	Studies of intermediate vector boson production and decay in UA1 at the CERN proton-antiproton collider. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1989</b> , 44, 15-61		87
170	Simulated and observed decadal variability in ocean heat content. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	86
169	Anthropogenic Warming of the Oceans: Observations and Model Results. <i>Journal of Climate</i> , <b>2006</b> , 19, 1873-1900	4.4	85
168	Time Variation of Effective Climate Sensitivity in GCMs. <i>Journal of Climate</i> , <b>2008</b> , 21, 5076-5090	4.4	83

167	Precipitation in Britain: An analysis of area-average data updated to 1989. <i>International Journal of Climatology</i> , <b>2007</b> , 11, 331-345	3.5	83
166	An AOGCM simulation of the climate response to a volcanic super-eruption. <i>Climate Dynamics</i> , <b>2005</b> , 25, 725-738	4.2	83
165	Carbon dioxide induced stomatal closure increases radiative forcing via a rapid reduction in low cloud. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	80
164	Understanding projections of sea level rise in a Hadley Centre coupled climate model. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		79
163	Volcanoes and climate: Krakatoa's signature persists in the ocean. <i>Nature</i> , <b>2006</b> , 439, 675	50.4	79
162	A description of the FAMOUS (version XDBUA) climate model and control run. <i>Geoscientific Model Development</i> , <b>2008</b> , 1, 53-68	6.3	78
161	The Flux-Anomaly-Forced Model Intercomparison Project (FAFMIP) contribution to CMIP6: investigation of sea-level and ocean climate change in response to CO <sub>2</sub> forcing. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 3993-4017	6.3	76
160	Relationship of tropospheric stability to climate sensitivity and Earth's observed radiation budget. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 13126-13131	11.5	75
159	Systematic optimisation and climate simulation of FAMOUS, a fast version of HadCM3. <i>Climate Dynamics</i> , <b>2005</b> , 25, 189-204	4.2	75
158	Bistability of the Atlantic overturning circulation in a global climate model and links to ocean freshwater transport. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	74
157	Coastal and global averaged sea level rise for 1950 to 2000. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	74
156	Measurement of the bottom quark production cross section in proton-antiproton collisions at $\sqrt{s} = 0.63$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1988</b> , 213, 405-412	4.2	72
155	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. <i>Cryosphere</i> , <b>2020</b> , 14, 3033-3070	5.5	71
154	Calibrated prediction of Pine Island Glacier retreat during the 21st and 22nd centuries with a coupled flowline model. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 333-334, 191-199	5.3	70
153	First observation of the beauty baryon $\Xi_{bc}$ in the decay channel $\Xi_{bc} \rightarrow \Xi_{bc}^0 \gamma$ at the CERN proton-antiproton collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 273, 540-548	4.2	70
152	Use of an upwelling-diffusion energy balance climate model to simulate and diagnose AOGCM results. <i>Climate Dynamics</i> , <b>2001</b> , 17, 601-613	4.2	69
151	A model study of factors influencing projected changes in regional sea level over the twenty-first century. <i>Climate Dynamics</i> , <b>2011</b> , 36, 2015-2033	4.2	68
150	Intermittency studies in pp collisions at $\sqrt{s} = 630$ GeV. <i>Nuclear Physics B</i> , <b>1990</b> , 345, 1-21	2.8	68

149	Krakatoa lives: The effect of volcanic eruptions on ocean heat content and thermal expansion. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	67
148	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. <i>Cryosphere</i> , <b>2019</b> , 12, 1433-1460	5.5	67
147	Accounting for Changing Temperature Patterns Increases Historical Estimates of Climate Sensitivity. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8490-8499	4.9	66
146	Evaluating the ability of process based models to project sea-level change. <i>Environmental Research Letters</i> , <b>2013</b> , 8, 014051	6.2	66
145	Critical Southern Ocean climate model biases traced to atmospheric model cloud errors. <i>Nature Communications</i> , <b>2018</b> , 9, 3625	17.4	66
144	The Coming Climate. <i>Scientific American</i> , <b>1997</b> , 276, 78-83	0.5	65
143	Mechanisms of ocean heat uptake in a coupled climate model and the implications for tracer based predictions of ocean heat uptake. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	65
142	A step-response simple climate model to reconstruct and interpret AOGCM projections. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	64
141	Evaluation of the sea ice simulation in a new coupled atmosphere-ocean climate model (HadGEM1). <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		63
140	Impact of an Eddy-Permitting Ocean Resolution on Control and Climate Change Simulations with a Global Coupled GCM. <i>Journal of Climate</i> , <b>2004</b> , 17, 3-20	4.4	62
139	Predictions of global and regional sea-level rise using AOGCMs with and without flux adjustment. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 3069-3072	4.9	62
138	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. <i>Cryosphere</i> , <b>2020</b> , 14, 3071-3096	5.5	62
137	Meeting User Needs for Sea Level Rise Information: A Decision Analysis Perspective. <i>Earths Future</i> , <b>2019</b> , 7, 320-337	7.9	61
136	Simulated Global-Mean Sea Level Changes over the Last Half-Millennium. <i>Journal of Climate</i> , <b>2006</b> , 19, 4576-4591	4.4	61
135	Analysis of the regional pattern of sea level change due to ocean dynamics and density change for 1993-2009 in observations and CMIP5 AOGCMs. <i>Climate Dynamics</i> , <b>2015</b> , 45, 2647-2666	4.2	60
134	Direct photon production at the CERN proton-antiproton collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1988</b> , 209, 385-396	4.2	59
133	Effect of uncertainty in surface mass balance elevation feedback on projections of the future sea level contribution of the Greenland ice sheet. <i>Cryosphere</i> , <b>2014</b> , 8, 195-208	5.5	58
132	Climatic Impact of a Greenland Deglaciation and Its Possible Irreversibility. <i>Journal of Climate</i> , <b>2004</b> , 17, 21-33	4.4	58

131	On the Link between the Two Modes of the Ocean Thermohaline Circulation and the Formation of Global-Scale Water Masses. <i>Journal of Climate</i> , <b>2003</b> , 16, 2797-2801	4.4	57
130	J/ψ and ψ production at the CERN p p collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 256, 112-120	4.2	57
129	A study of the sensitivity of ocean overturning circulation and climate to freshwater input in different regions of the North Atlantic. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	55
128	Freshwater transports in HadCM3. <i>Climate Dynamics</i> , <b>2003</b> , 21, 177-195	4.2	55
127	A search for rare B meson decays at the CERN SpS collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 262, 163-170	4.2	55
126	Bose-Einstein correlations in pp interactions at √s=0.2 to 0.9 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1989</b> , 226, 410-416	4.2	53
125	Equilibrium Climate Sensitivity Estimated by Equilibrating Climate Models. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL083898	4.9	53
124	Two-jet mass distributions at the CERN proton-antiproton collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1988</b> , 209, 127-134	4.2	51
123	Volcanic Radiative Forcing From 1979 to 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 12491-12508	4.4	50
122	Cloud Adjustment and its Role in CO2 Radiative Forcing and Climate Sensitivity: A Review. <i>Surveys in Geophysics</i> , <b>2012</b> , 33, 619-635	7.6	49
121	The last glacial cycle: transient simulations with an AOGCM. <i>Climate Dynamics</i> , <b>2012</b> , 38, 1545-1559	4.2	48
120	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. <i>Cryosphere</i> , <b>2019</b> , 13, 1441-1451	3.5	47
119	Are observed decadal changes in intermediate water masses a signature of anthropogenic climate change?. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 2961-2964	4.9	47
118	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , <b>2021</b> , 593, 74-82	50.4	45
117	Climate models without preindustrial volcanic forcing underestimate historical ocean thermal expansion. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 1600-1604	4.9	44
116	Long-term effect of volcanic forcing on ocean heat content. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.4	43
115	Sea Level Changes under Increasing Atmospheric CO2 in a Transient Coupled Ocean-Atmosphere GCM Experiment. <i>Journal of Climate</i> , <b>1993</b> , 6, 2247-2262	4.4	43
114	LongRunMIP: Motivation and Design for a Large Collection of Millennial-Length AOGCM Simulations. <i>Bulletin of the American Meteorological Society</i> , <b>2019</b> , 100, 2551-2570	6.1	42



113	Ocean Heat Uptake Processes: A Model Intercomparison. <i>Journal of Climate</i> , <b>2015</b> , 28, 887-908	4.4	42
112	Abrupt CO2 experiments as tools for predicting and understanding CMIP5 representative concentration pathway projections. <i>Climate Dynamics</i> , <b>2013</b> , 40, 1041-1053	4.2	42
111	Nonlinear regional warming with increasing CO2 concentrations. <i>Nature Climate Change</i> , <b>2015</b> , 5, 138-142	4.4	42
110	Low mass Dimuon production at the CERN proton-antiproton collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1988</b> , 209, 397-406	4.2	42
109	Fast and Slow Components of the Extratropical Atmospheric Circulation Response to CO2 Forcing. <i>Journal of Climate</i> , <b>2018</b> , 31, 1091-1105	4.4	40
108	The role of the Atlantic freshwater balance in the hysteresis of the meridional overturning circulation. <i>Climate Dynamics</i> , <b>2003</b> , 21, 707-717	4.2	40
107	Measurement of the ratio $R = W_{Br}(W_{I})/W_{Br}(Z_{I})$ and $W_{tot}$ at the CERN proton-antiproton collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 253, 503-510	4.2	39
106	How accurately can the climate sensitivity to $(\text{hbox {CO}}_2)$ be estimated from historical climate change?. <i>Climate Dynamics</i> , <b>2020</b> , 54, 129-157	4.2	39
105	Aerosol-Forced AMOC Changes in CMIP6 Historical Simulations. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088166	4.9	38
104	The Reversibility of Sea Level Rise. <i>Journal of Climate</i> , <b>2013</b> , 26, 2502-2513	4.4	38
103	Simulation of daily variability of surface temperature and precipitation over Europe in the current and 2 x CO2 climates using the UKMO climate model. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>1995</b> , 121, 1451-1476	6.4	38
102	Small global-mean cooling due to volcanic radiative forcing. <i>Climate Dynamics</i> , <b>2016</b> , 47, 3979-3991	4.2	37
101	A step-response approach for predicting and understanding non-linear precipitation changes. <i>Climate Dynamics</i> , <b>2012</b> , 39, 2789-2803	4.2	37
100	Feedbacks and mechanisms affecting the global sensitivity of glaciers to climate change. <i>Cryosphere</i> , <b>2014</b> , 8, 59-71	5.5	35
99	The drivers of projected North Atlantic sea level change. <i>Climate Dynamics</i> , <b>2014</b> , 43, 1531-1544	4.2	34
98	Kinetic energy analysis of the response of the Atlantic meridional overturning circulation to CO2-forced climate change. <i>Climate Dynamics</i> , <b>2011</b> , 37, 893-914	4.2	34
97	Climate entropy budget of the HadCM3 atmosphere-ocean general circulation model and of FAMOUS, its low-resolution version. <i>Climate Dynamics</i> , <b>2011</b> , 36, 1189-1206	4.2	33
96	Dependence of the land-sea contrast in surface climate response on the nature of the forcing. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	33


95	Air flow influences on local climate: observed and simulated mean relationships for the United Kingdom. <i>Climate Research</i> , <b>1999</b> , 13, 173-191	1.6	32
94	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. <i>Cryosphere</i> , <b>2020</b> , 14, 2331-2368	5.5	32
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