W Richard Peltier

List of Publications by Citations

299 papers	22,777 citations	69 h-index	143 g-index
332 ext. papers	25,136 ext. citations	6 avg, IF	7.47 L-index

#	Paper	IF	Citations
299	GLOBAL GLACIAL ISOSTASY AND THE SURFACE OF THE ICE-AGE EARTH: The ICE-5G (VM2) Model and GRACE. *Annual Review of Earth and Planetary Sciences*, **2004**, 32, 111-149	15.3	2010
298	An alternative astronomical calibration of the lower Pleistocene timescale based on ODP Site 677. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, **1990**, 81, 251-261		1113
297	Ice age paleotopography. *Science*, **1994**, 265, 195-201	33.3	1051
296	Investigating the Causes of the Response of the Thermohaline Circulation to Past and Future Climate Changes. *Journal of Climate*, **2006**, 19, 1365-1387	4.4	719
295	Global glacial ice volume and Last Glacial Maximum duration from an extended Barbados sea level record. *Quaternary Science Reviews*, **2006**, 25, 3322-3337	3.9	711
294	The impulse response of a Maxwell Earth. *Reviews of Geophysics*, **1974**, 12, 649	23.1	624
293	Space geodesy constrains ice age terminal deglaciation: The global ICE-6G_C (VM5a) model. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 450-487	3.6	622
292	Ice-3G: A new global model of Late Pleistocene deglaciation based upon geophysical predictions of post-glacial relative sea level change. *Journal of Geophysical Research*, **1991**, 96, 4497-4523		577
291	Postglacial variations in the level of the sea: Implications for climate dynamics and solid-Earth geophysics. *Reviews of Geophysics*, **1998**, 36, 603-689	23.1	429
290	Glacial-Isostatic Adjustment-I. The Forward Problem. *Geophysical Journal of the Royal Astronomical Society*, **2007**, 46, 605-646		372
289	Neoproterozoic 'snowball Earth' simulations with a coupled climate/ice-sheet model. *Nature*, **2000**, 405, 425-9	50.4	341
288	Viscous gravitational relaxation. *Geophysical Journal International*, **1982**, 70, 435-485	2.6	326
287	Monsoon changes for 6000 years ago: Results of 18 simulations from the Paleoclimate Modeling Intercomparison Project (PMIP). *Geophysical Research Letters*, **1999**, 26, 859-862	4.9	318
286	The Antarctica component of postglacial rebound model ICE-6G_C (VM5a) based on GPS positioning, exposure age dating of ice thicknesses, and relative sea level histories. *Geophysical Journal International*, **2014**, 198, 537-563	2.6	283
285	MIXING EFFICIENCY IN STRATIFIED SHEAR FLOWS. *Annual Review of Fluid Mechanics*, **2003**, 35, 135-167	22	276
284	Global sea level rise and the greenhouse effect: might they be connected?. *Science*, **1989**, 244, 806-10	33.3	267
283	On eustatic sea level history: Last Glacial Maximum to Holocene. *Quaternary Science Reviews*, **2002**, 21, 377-396	3.9	258

282	Arctic freshwater forcing of the Younger Dryas cold reversal. *Nature*, **2005**, 435, 662-5	50.4	239
281	Pleistocene deglaciation and the Earth's rotation: a new analysis. *Geophysical Journal International*, **1984**, 76, 753-791	2.6	211
280	A data-calibrated distribution of deglacial chronologies for the North American ice complex from glaciological modeling. *Earth and Planetary Science Letters*, **2012**, 315-316, 30-40	5.3	210
279	Glacial-Isostatic Adjustment-II. The Inverse Problem. *Geophysical Journal of the Royal Astronomical Society*, **2007**, 46, 669-705		210
278	Mantle Viscosity and Ice-Age Ice Sheet Topography. *Science*, **1996**, 273, 1359-1364	33.3	210
277	Past and future polar amplification of climate change: climate model intercomparisons and ice-core constraints. *Climate Dynamics*, **2006**, 26, 513-529	4.2	205
276	High tide of the warm Pliocene: Implications of global sea level for Antarctic deglaciation. *Geology*, **2012**, 40, 407-410	5	193
275	The angular velocities of the plates and the velocity of Earth's centre from space geodesy. *Geophysical Journal International*, **2010**, 180, 913-960	2.6	187
274	Greenland glacial history and local geodynamic consequences. *Geophysical Journal International*, **2002**, 150, 198-229	2.6	186
273	The modern and glacial overturning circulation in the Atlantic ocean in PMIP coupled model simulations. *Climate of the Past*, **2007**, 3, 51-64	3.9	175
272	Glaciological reconstruction of the Laurentide Ice Sheet: physical processes and modelling challenges. *Canadian Journal of Earth Sciences*, **2000**, 37, 769-793	1.5	161
271	Last Glacial Maximum temperatures over the North Atlantic, Europe and western Siberia: a comparison between PMIP models, MARGO sea□surface temperatures and pollen-based reconstructions. *Quaternary Science Reviews*, **2006**, 25, 2082-2102	3.9	157
270	The anatomy of the mixing transition in homogeneous and stratified free shear layers. *Journal of Fluid Mechanics*, **2000**, 413, 1-47	3.7	157
269	The LAGEOS constraint on deep mantle viscosity: Results from a new normal mode method for the inversion of viscoelastic relaxation spectra. *Journal of Geophysical Research*, **1985**, 90, 9411		155
268	The onset of turbulence in finite-amplitude Kelvin□Helmholtz billows. *Journal of Fluid Mechanics*, **1985**, 155, 1	3.7	146
267	Pleistocene deglaciation and the Earth's rotation: implications for mantle viscosity. *Geophysical Journal International*, **1981**, 66, 553-578	2.6	146
266	Glacial isostasy and relative sea level: A global finite element model. *Tectonophysics*, **1978**, 50, 81-110	3.1	141
265	Spatial variability of late Holocene and 20th century sea-level rise along the Atlantic coast of the United States. *Geology*, **2009**, 37, 1115-1118	5	140

264	Validation of the ICE-3G Model of W□m-Wisconsin Deglaciation using a global data base of relative sea level histories. *Journal of Geophysical Research*, **1992**, 97, 3285-3304		137
263	Mantle phase transitions and layered chaotic convection. *Geophysical Research Letters*, **1992**, 19, 321-324	4.9	135
262	Quaternary marine terraces, sea-level changes and uplift history of Patagonia, Argentina: comparisons with predictions of the ICE-4G (VM2) model of the global process of glacial isostatic adjustment. *Quaternary Science Reviews*, **2000**, 19, 1495-1525	3.9	132
261	On the postglacial isostatic adjustment of the British Isles and the shallow viscoelastic structure of the Earth. *Geophysical Journal International*, **2002**, 148, 443-475	2.6	121
260	Impact of thermomechanical ice sheet coupling on a model of the 100 kyr ice age cycle. *Journal of Geophysical Research*, **1999**, 104, 9517-9545		121
259	Comment on □An Assessment of the ICE-6G_C (VM5a) Glacial Isostatic Adjustment Model□by Purcell et al.. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 2019-2028	3.6	119
258	Greenland glacial history, borehole constraints, and Eemian extent. *Journal of Geophysical Research*, **2003**, 108,		117
257	Closure of the budget of global sea level rise over the GRACE era: the importance and magnitudes of the required corrections for global glacial isostatic adjustment. *Quaternary Science Reviews*, **2009**, 28, 1658-1674	3.9	115
256	The influence of stratification on secondary instability in free shear layers. *Journal of Fluid Mechanics*, **1991**, 227, 71-106	3.7	115
255	Global glacial isostatic adjustment: palaeogeodetic and space-geodetic tests of the ICE-4G (VM2) model. *Journal of Quaternary Science*, **2002**, 17, 491-510	2.3	112
254	Dansgaard-Oeschger oscillations predicted in a comprehensive model of glacial climate: A □licked□ salt oscillator in the Atlantic. *Geophysical Research Letters*, **2014**, 41, 7306-7313	4.9	110
253	Mantle plumes and the thermal stability of the D? layer. *Geophysical Research Letters*, **1980**, 7, 625-628	4.9	109
252	Dynamics of groundwater recharge and seepage over the Canadian landscape during the Wisconsinian glaciation. *Journal of Geophysical Research*, **2008**, 113,		106
251	The PMIP4 contribution to CMIP6 □Part 1: Overview and over-arching analysis plan. *Geoscientific Model Development*, **2018**, 11, 1033-1057	6.3	106
250	A thermal history model for the Earth with parameterized convection. *Geophysical Journal International*, **1979**, 59, 171-203	2.6	103
249	Chapter 4 Global glacial isostatic adjustment and modern instrumental records of relative sea level history. *International Geophysics*, **2001**, 75, 65-95		102
248	On the reconstruction of palaeo-ice sheets: Recent advances and future challenges. *Quaternary Science Reviews*, **2015**, 125, 15-49	3.9	100
247	Deglaciation-induced vertical motion of the North American continent and transient lower mantle rheology. *Journal of Geophysical Research*, **1986**, 91, 9099		100

246	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
245	Dynamic surface topography: A new interpretation based upon mantle flow models derived from seismic tomography. *Geophysical Research Letters*, **1993**, 20, 225-228	4.9	97
244	A calibrated deglacial drainage chronology for the North American continent: evidence of an Arctic trigger for the Younger Dryas. *Quaternary Science Reviews*, **2006**, 25, 659-688	3.9	95
243	Global sea level rise and glacial isostatic adjustment. *Global and Planetary Change*, **1999**, 20, 93-123	4.2	95
242	Holocene relative sea-level changes and glacial isostatic adjustment of the U.S. Atlantic coast. *Geology*, **2011**, 39, 751-754	5	91
241	The Inference of Mantle Viscosity From an Inversion of the Fennoscandian Relaxation Spectrum. *Geophysical Journal International*, **1993**, 114, 45-62	2.6	89
240	Dynamical Downscaling over the Great Lakes Basin of North America Using the WRF Regional Climate Model: The Impact of the Great Lakes System on Regional Greenhouse Warming. *Journal of Climate*, **2012**, 25, 7723-7742	4.4	86
239	Drivers of Holocene sea-level change in the Caribbean. *Quaternary Science Reviews*, **2017**, 155, 13-36	3.9	85
238	On the hemispheric origins of meltwater pulse 1a. *Quaternary Science Reviews*, **2005**, 24, 1655-1671	3.9	85
237	Constraint on deep mantle viscosity from Lageos acceleration data. *Nature*, **1983**, 304, 434-436	50.4	84
236	Holocene Relative Sea-Level Changes from Near-, Intermediate-, and Far-Field Locations. *Current Climate Change Reports*, **2015**, 1, 247-262	9	83
235	Snowball Earth prevention by dissolved organic carbon remineralization. *Nature*, **2007**, 450, 813-8	50.4	80
234	Terminating the 100 kyr ice age cycle. *Journal of Geophysical Research*, **1997**, 102, 21665-21693		78
233	The role of transverse secondary instabilities in the evolution of free shear layers. *Journal of Fluid Mechanics*, **1989**, 202, 367-402	3.7	77
232	Dansgaard–Oeschger Oscillations in a Coupled Atmosphere–Ocean Climate Model. *Journal of Climate*, **1997**, 10, 949-970	4.4	72
231	Rheological stratification of the lithosphere: A direct inference based upon the geodetically observed pattern of the glacial isostatic adjustment of the North American continent. *Geophysical Research Letters*, **2008**, 35,	4.9	70
230	Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments. *Geoscientific Model Development*, **2015**, 8, 3621-3637	6.3	68
229	Modeling of Polar Ocean Tides at the Last Glacial Maximum: Amplification, Sensitivity, and Climatological Implications. *Journal of Climate*, **2009**, 22, 2905-2924	4.4	68

228	Glacial isostatic adjustment and Earth rotation: Refined constraints on the viscosity of the deepest mantle. *Journal of Geophysical Research*, **1996**, 101, 3269-3290		68
227	Simulations of continental ice sheet growth over the last glacial-interglacial cycle: Experiments with a one-level seasonal energy balance model including realistic geography. *Journal of Geophysical Research*, **1991**, 96, 9189		68
226	Late Pleistocene sea level variations derived from the Argentine Shelf. *Geochemistry, Geophysics, Geosystems*, **2000**, 1, n/a-n/a	3.6	67
225	Lithospheric Thickness, Antarctic Deglaciation History, and Ocean Basin Discretization Effects in a Global Model Of Postglacial Sea Level Change: a Summary of Some Sources of Nonuniqueness. *Quaternary Research*, **1988**, 29, 93-112	1.9	67
224	Holocene sea-level changes along the North Carolina Coastline and their implications for glacial isostatic adjustment models. *Quaternary Science Reviews*, **2009**, 28, 1725-1736	3.9	66
223	The climate of the Earth at Last Glacial Maximum: statistical equilibrium state and a mode of internal variability. *Quaternary Science Reviews*, **2004**, 23, 335-357	3.9	66
222	Global sea level rise and glacial isostatic adjustment: An analysis of data from the East Coast of North America. *Geophysical Research Letters*, **1996**, 23, 717-720	4.9	66
221	A One-Dimensional Model of Continental Ice Volume Fluctuations through the Pleistocene: Implications for the Origin of the Mid-Pleistocene Climate Transition. *Journal of Climate*, **1991**, 4, 318-344	4.4	66
220	Mid-Holocene NAO: A PMIP2 model intercomparison. *Geophysical Research Letters*, **2005**, 32,	4.9	64
219	CO2 levels required for deglaciation of a "near-snowball" Earth. *Geophysical Research Letters*, **2001**, 28, 283-286	4.9	62
218	High-resolution numerical modeling of tides in the western Atlantic, Gulf of Mexico, and Caribbean Sea during the Holocene. *Journal of Geophysical Research*, **2011**, 116,		61
217	Finite amplitude holmboe waves. *Geophysical and Astrophysical Fluid Dynamics*, **1988**, 43, 181-222	1.4	61
216	Sensitivity of glacial inception to orbital and greenhouse gas climate forcing. *Quaternary Science Reviews*, **2004**, 23, 499-519	3.9	60
215	On the Pacific Decadal Oscillation and the Atlantic Multidecadal Oscillation: Might they be related?. *Geophysical Research Letters*, **2007**, 34, n/a-n/a	4.9	59
214	New Icosahedral Grid-Point Discretizations of the Shallow Water Equations on the Sphere. *Journal of Computational Physics*, **1999**, 148, 23-58	4.1	59
213	Glacial isostatic adjustment, relative sea level history and mantle viscosity: reconciling relative sea level model predictions for the U.S. East coast with geological constraints. *Geophysical Journal International*, **2015**, 201, 1156-1181	2.6	58
212	Transient climate simulations of the deglaciation 21–9 thousand years before present (version 1) – PMIP4 Core experiment design and boundary conditions. *Geoscientific Model Development*, **2016**, 9, 2563-2587	6.3	58
211	Time-dependent, non-monotonic mixing in stratified turbulent shear flows: implications for oceanographic estimates of buoyancy flux. *Journal of Fluid Mechanics*, **2013**, 736, 570-593	3.7	57

210	Comparison of North-American pollen-based temperature and global lake-status with CCCma AGCM2 output at 6ka. *Quaternary Science Reviews*, **2004**, 23, 225-244	3.9	57
209	Far-Field Test of the ICE-4G Model of Global Isostatic Response to Deglaciation Using Empirical and Theoretical Holocene Sea-Level Reconstructions for the Fiji Islands, Southwestern Pacific. *Quaternary Research*, **2001**, 55, 203-214	1.9	57
208	Three-dimensional primary instabilities of a stratified, dissipative, parallel flow. *Geophysical and Astrophysical Fluid Dynamics*, **1990**, 52, 249-261	1.4	57
207	Diapycnal diffusivity, turbulent Prandtl number and mixing efficiency in Boussinesq stratified turbulence. *Journal of Fluid Mechanics*, **2015**, 775, 464-500	3.7	56
206	Secular sea level change in the Russian sector of the Arctic Ocean. *Journal of Geophysical Research*, **2004**, 109,		56
205	Inferences of mantle viscosity from tectonic plate velocities. *Geophysical Research Letters*, **1991**, 18, 1747-1750	4.9	56
204	New constraints on transient lower mantle rheology and internal mantle buoyancy from glacial rebound data. *Nature*, **1985**, 318, 614-617	50.4	55
203	Heat transfer and the onset of chaos in a spherical, axisymmetric, anelastic model of whole mantle convection. *Geophysical and Astrophysical Fluid Dynamics*, **1990**, 53, 205-255	1.4	53
202	Nonlinear mountain waves in two and three spatial dimensions. *Quarterly Journal of the Royal Meteorological Society*, **1983**, 109, 527-548	6.4	52
201	Late Pleistocene Ice Age Scenarios Based on Observational Evidence. *Journal of Climate*, **1993**, 6, 709-727	4.4	51
200	Efficiency of turbulent mixing in the abyssal ocean circulation. *Geophysical Research Letters*, **2017**, 44, 6296-6306	4.9	50
199	Impact of a modified convective scheme on the Madden-Julian Oscillation and El Niño-Southern Oscillation in a coupled climate model. *Geophysical Research Letters*, **2007**, 34,	4.9	50
198	Shear-induced mixing in geophysical flows: does the route to turbulence matter to its efficiency?. *Journal of Fluid Mechanics*, **2013**, 725, 216-261	3.7	49
197	The role of secondary instabilities precursory to stratified shear flow transition. Part 1 Shear aligned convection, pairing, and braid instabilities. *Journal of Fluid Mechanics*, **2012**, 708, 5-44	3.7	49
196	The Initiation of Modern "Soft Snowball" and "Hard Snowball" Climates in CCSM3. Part I: The Influences of Solar Luminosity, CO2 Concentration, and the Sea Ice/Snow Albedo Parameterization. *Journal of Climate*, **2012**, 25, 2711-2736	4.4	49
195	Earth's gravitational field: Seismic tomography resolves the enigma of the Laurentian Anomaly. *Geophysical Research Letters*, **1992**, 19, 1555-1558	4.9	49
194	Three dimensionalization of the stratified mixing layer. *Physics of Fluids*, **1994**, 6, 3803-3805	4.4	48
193	Constraining models of postglacial rebound using space geodesy: a detailed assessment of model ICE-5G (VM2) and its relatives. *Geophysical Journal International*, **2010**,	2.6	47

192	Mantle viscosity from the simultaneous inversion of multiple data sets pertaining to postglacial rebound. *Geophysical Research Letters*, **1996**, 23, 503-506	4.9	47
191	Red Sea during the Last Glacial Maximum: Implications for sea level reconstruction. *Paleoceanography*, **2008**, 23, n/a-n/a		45
190	Megatides in the Arctic Ocean under glacial conditions. *Geophysical Research Letters*, **2008**, 35,	4.9	45
189	Relative sea level in the Western Mediterranean basin: A regional test of the ICE-7G_NA (VM7) model and a constraint on late Holocene Antarctic deglaciation. *Quaternary Science Reviews*, **2018**, 183, 76-87	3.9	44
188	On the origins of Earth rotation anomalies: New insights on the basis of both "paleogeodetic" data and Gravity Recovery and Climate Experiment (GRACE) data. *Journal of Geophysical Research*, **2009**, 114,		44
187	Glacial isostatic adjustment observed using very long baseline interferometry and satellite laser ranging geodesy. *Journal of Geophysical Research*, **1999**, 104, 29077-29093		44
186	The Pangean ice age: studies with a coupled climate-ice sheet model. *Climate Dynamics*, **1999**, 15, 619-629	4.2	43
185	Whole mantle convection and the thermal evolution of the earth. *Physics of the Earth and Planetary Interiors*, **1982**, 29, 281-304	2.3	43
184	Turbulent diapycnal mixing in stratified shear flows: the influence of Prandtl number on mixing efficiency and transition at high Reynolds number. *Journal of Fluid Mechanics*, **2015**, 773, 178-223	3.7	42
183	Influence of tidal-range change and sediment compaction on Holocene relative sea-level change in New Jersey, USA. *Journal of Quaternary Science*, **2013**, 28, 403-411	2.3	42
182	The Initiation of Modern "Soft Snowball" and "Hard Snowball" Climates in CCSM3. Part II: Climate Dynamic Feedbacks. *Journal of Climate*, **2012**, 25, 2737-2754	4.4	42
181	"Implicit ice" in the global theory of glacial isostatic adjustment. *Geophysical Research Letters*, **1998**, 25, 3955-3958	4.9	42
180	VLBI baseline variations from the Ice-4G Model of postglacial rebound. *Geophysical Research Letters* , **1995**, 22, 465-468	4.9	41
179	Deploying a Top-100 Supercomputer for Large Parallel Workloads **2019**,		40
178	The "zoo" of secondary instabilities precursory to stratified shear flow transition. Part 2 The influence of stratification. *Journal of Fluid Mechanics*, **2012**, 708, 45-70	3.7	40
177	Coevolution of continental ice cover and permafrost extent over the last glacial-interglacial cycle in North America. *Journal of Geophysical Research*, **2007**, 112,		39
176	On the resonant generation of large-amplitude internal solitary and solitary-like waves. *Journal of Fluid Mechanics*, **2005**, 543, 267	3.7	39
175	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

174	Atlantic meridional overturning and climate response to Arctic Ocean freshening. *Geophysical Research Letters*, **2006**, 33,	4.9	38
173	A simple model of the Atlantic thermohaline circulation: Internal and forced variability with paleoclimatological implications. *Journal of Geophysical Research*, **1995**, 100, 13455		38
172	Thermohaline instability and the formation of glacial North Atlantic super polynyas at the onset of Dansgaard-Oeschger warming events. *Geophysical Research Letters*, **2016**, 43, 5336-5344	4.9	37
171	The inverse problem for mantle viscosity. *Inverse Problems*, **1998**, 14, 441-478	2.3	37
170	Large-scale features and evaluation of the PMIP4-CMIP6 <i>midHolocene</i> simulations. *Climate of the Past*, **2020**, 16, 1847-1872	3.9	37
169	A high-resolution study of tides in the Delaware Bay: Past conditions and future scenarios. *Geophysical Research Letters*, **2013**, 40, 338-342	4.9	36
168	Simulating the impact of glaciations on continental groundwater flow systems: 1. Relevant processes and model formulation. *Journal of Geophysical Research*, **2008**, 113,		36
167	A robust unstructured grid discretization for 3-dimensional hydrostatic flows in spherical geometry: A new numerical structure for ocean general circulation modeling. *Journal of Computational Physics* , **2006**, 213, 704-729	4.1	36
166	On breaking internal waves over the sill in Knight Inlet. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2001**, 457, 2799-2825	2.4	36
165	Three-dimensionalization of barotropic vortices on the f-plane. *Journal of Fluid Mechanics*, **1994**, 265, 25-64	3.7	36
164	The glacial North Atlantic Oscillation. *Geophysical Research Letters*, **2005**, 32,	4.9	35
163	A new characterization of the turbulent diapycnal diffusivities of mass and momentum in the ocean. *Geophysical Research Letters*, **2016**, 43, 3370-3379	4.9	35
162	GRACE era secular trends in Earth rotation parameters: A global scale impact of the global warming process?. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	34
161	Oceanic bathymetry profiles flattened by radiogenic heating in a convecting mantle. *Nature*, **1980**, 285, 649-651	50.4	34
160	Space-geodetic and water level gauge constraints on continental uplift and tilting over North America: regional convergence of the ICE-6G_C (VM5a/VM6) models. *Geophysical Journal International*, **2017**, 210, 1115-1142	2.6	33
159	Climate change impacts on Great Lakes Basin precipitation extremes. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 10,799-10,812	4.4	33
158	Last Glacial Maximum ice sheet impacts on North Atlantic climate variability: The importance of the sea ice lid. *Geophysical Research Letters*, **2013**, 40, 6378-6383	4.9	33
157	Turbulent mixing due to the Holmboe wave instability at high Reynolds number. *Journal of Fluid Mechanics*, **2016**, 803, 591-621	3.7	33

156	The initiation of modern soft and hard Snowball Earth climates in CCSM4. *Climate of the Past*, **2012**, 8, 907-918	3.9	32
155	ICE-5G and ICE-6G models of postglacial relative sea-level history applied to the Holocene coral reef record of northeastern St Croix, U.S.V.I.: investigating the influence of rotational feedback on GIA processes at tropical latitudes. *Quaternary Science Reviews*, **2011**, 30, 3032-3042	3.9	32
154	Stratification effects on the stability of columnar vortices on the f-plane. *Journal of Fluid Mechanics*, **1998**, 355, 45-79	3.7	32
153	A Dynamical Systems Model of the Dansgaard□Oeschger Oscillation and the Origin of the Bond Cycle. *Journal of Climate*, **1999**, 12, 2238-2255	4.4	32
152	The effect of prandtl number on the evolution and stability of Kelvin□Helmholtz billows. *Geophysical and Astrophysical Fluid Dynamics*, **1985**, 32, 23-60	1.4	32
151	Regional and global climate for the mid-Pliocene using the University of Toronto version of CCSM4 and PlioMIP2 boundary conditions. *Climate of the Past*, **2017**, 13, 919-942	3.9	31
150	Influence of Enhanced Abyssal Diapycnal Mixing on Stratification and the Ocean Overturning Circulation. *Journal of Physical Oceanography*, **2015**, 45, 2580-2597	2.4	31
149	Ice-age ice-sheet rheology: constraints from the Last Glacial Maximum form of the Laurentide ice sheet. *Annals of Glaciology*, **2000**, 30, 163-176	2.5	31
148	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
147	The Role of Holocene Relative Sea-Level Change in Preserving Records of Subduction Zone Earthquakes. *Current Climate Change Reports*, **2016**, 2, 86-100	9	30
146	A carbon cycle coupled climate model of Neoproterozoic glaciation: Influence of continental configuration on the formation of a □soft snowball□ *Journal of Geophysical Research*, **2010**, 115,		30
145	Numerical models of the Earth□s thermal history: Effects of inner-core solidification and core potassium. *Physics of the Earth and Planetary Interiors*, **2005**, 152, 22-42	2.3	30
144	Simulating Climate Change Impacts on Surface Water Resources Within a Lake-Affected Region Using Regional Climate Projections. *Water Resources Research*, **2019**, 55, 130-155	5.4	30
143	A high-resolution model of the 100 ka ice-age cycle. *Annals of Glaciology*, **1997**, 25, 58-65	2.5	29
142	Simulating the impact of glaciations on continental groundwater flow systems: 2. Model application to the Wisconsinian glaciation over the Canadian landscape. *Journal of Geophysical Research*, **2008**, 113,		29
141	Penetrative convection in the planetary mantle. *Geophysical Fluid Dynamics*, **1973**, 5, 47-88		29
140	MANTLE VISCOSITY, GLACIAL ISOSTATIC ADJUSTMENT AND THE EUSTATIC LEVEL OF THE SEA. *Surveys in Geophysics*, **1997**, 18, 239-277	7.6	27
139	Structure of the upper water column in the northwest North Atlantic: Modern versus Last Glacial Maximum conditions. *Paleoceanography*, **2002**, 17, 2-1-2-15		27

138	Turbulence transition and internal wave generation in density stratified jets. *Physics of Fluids*, **1994**, 6, 1267-1284	4.4	27
137	Simulations of continental ice sheet growth over the last glacial-interglacial cycle: experiments with a one level seasonal energy balance model including seasonal ice albedo feedback. *Global and Planetary Change*, **1992**, 6, 37-55	4.2	27
136	Core-mantle boundary topography and whole-mantle convection. *Geophysical Research Letters*, **1989**, 16, 621-624	4.9	27
135	Fast Physics and Slow Physics in the Nonlinear Dansgaard□Oeschger Relaxation Oscillation. *Journal of Climate*, **2018**, 31, 3423-3449	4.4	26
134	Role of overturns in optimal mixing in stratified mixing layers. *Journal of Fluid Mechanics*, **2017**, 826, 522-552	3.7	26
133	Reconciling the ICE-6G_C reconstruction of glacial chronology with ice sheet dynamics: The cases of Greenland and Antarctica. *Journal of Geophysical Research F: Earth Surface*, **2015**, 120, 1841-1865	3.8	26
132	Rise of the Ellsworth mountains and parts of the East Antarctic coast observed with GPS. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	26
131	Thermal evolution of Earth: Models with time-dependent layering of mantle convection which satisfy the Urey ratio constraint. *Journal of Geophysical Research*, **2002**, 107, ESE 3-1		26
130	Three-dimensional instability of anticyclonic swirling flow in rotating fluid: Laboratory experiments and related theoretical predictions. *Physics of Fluids*, **1998**, 10, 3194-3202	4.4	26
129	Postglacial relative sea-level histories along the eastern Canadian coastline. *Quaternary Science Reviews*, **2018**, 201, 124-146	3.9	26
128	Interhemispheric air temperature phase relationships in the nonlinear Dansgaard-Oeschger oscillation. *Geophysical Research Letters*, **2015**, 42, 1180-1189	4.9	25
127	Relative sea-level change and postglacial isostatic adjustment along the coast of south Devon, United Kingdom. *Journal of Quaternary Science*, **2008**, 23, 415-433	2.3	25
126	Post-Eemian Glacial Inception. Part II: Elements of a Cryospheric Moisture Pump. *Journal of Climate*, **2003**, 16, 912-927	4.4	25
125	Comments on the paper of Yokoyama et al. (2000), entitled □iming of the Last Glacial Maximum from observed sea level minima□ *Quaternary Science Reviews*, **2002**, 21, 409-414	3.9	25
124	A new formalism for inferring mantle viscosity based on estimates of post glacial decay Times: Application to RSL variations in N.E. Hudson Bay. *Geophysical Research Letters*, **1993**, 20, 2183-2186	4.9	25
123	Post-Eemian Glacial Inception. Part I: The Impact of Summer Seasonal Temperature Bias. *Journal of Climate*, **2003**, 16, 889-911	4.4	25
122	Comment on □cean mass from GRACE and glacial isostatic adjustment□by D. P. Chambers et al.. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		24
121	Three-dimensional destabilization of Stuart vortices: the influence of rotation and ellipticity. *Journal of Fluid Mechanics*, **1999**, 387, 205-226	3.7	24

120	A multibasin reduced model of the global thermohaline circulation: Paleoceanographic analyses of the origins of ice-age climate variability. *Journal of Geophysical Research*, **1996**, 101, 22535-22562		24
119	Constraints on mantle viscosity from relative sea level variations in Hudson Bay. *Geophysical Research Letters*, **1992**, 19, 1185-1188	4.9	24
118	Relative sea-level changes during the Holocene in the Río de la Plata, Argentina and Uruguay: A review. *Quaternary International*, **2017**, 442, 35-49	2	23
117	The initiation of Neoproterozoic "snowball" climates in CCSM3: the influence of paleocontinental configuration. *Climate of the Past*, **2013**, 9, 2555-2577	3.9	23
116	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
115	Dynamically Downscaled High-Resolution Hydroclimate Projections for Western Canada. *Journal of Climate*, **2015**, 28, 423-450	4.4	22
114	Sea level variations during snowball Earth formation: 1. A preliminary analysis. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 4410-4424	3.6	22
113	Deep learning of mixing by two atoms of stratified turbulence. *Journal of Fluid Mechanics*, **2019**, 861,	3.7	22
112	On the mechanisms of warming the mid-Pliocene and the inference of a hierarchy of climate sensitivities with relevance to the understanding of climate futures. *Climate of the Past*, **2018**, 14, 825-856	3.9	22
111	The high-pressure electronic spin transition in iron: Potential impacts upon mantle mixing. *Journal of Geophysical Research*, **2011**, 116,		21
110	Evaluating Climate Change Impacts on Soil Moisture and Groundwater Resources Within a Lake-Affected Region. *Water Resources Research*, **2019**, 55, 8142-8163	5.4	20
109	Deepest mantle viscosity: Constraints from Earth rotation anomalies. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	20
108	Self-organized criticality of turbulence in strongly stratified mixing layers. *Journal of Fluid Mechanics*, **2018**, 856, 228-256	3.7	20
107	Relative sea-level change in northeastern Florida (USA) during the last ~8.0 ka. *Quaternary Science Reviews*, **2016**, 142, 90-101	3.9	19
106	Implications of Both Statistical Equilibrium and Global Warming Simulations with CCSM3. Part I: On the Decadal Variability in the North Pacific Basin. *Journal of Climate*, **2009**, 22, 5277-5297	4.4	19
105	A space geodetic target for mantle viscosity discrimination: Horizontal motions induced by glacial isostatic adjustment. *Geophysical Research Letters*, **1998**, 25, 543-546	4.9	19
104	A high-resolution model of the 100 ka ice-age cycle. *Annals of Glaciology*, **1997**, 25, 58-65	2.5	19
103	Projected Changes in Precipitation Extremes for Western Canada based on High-Resolution Regional Climate Simulations. *Journal of Climate*, **2016**, 29, 8841-8863	4.4	18

102	Model-dependence of the CO₂ threshold for melting the hard Snowball Earth. *Climate of the Past*, **2011**, 7, 17-25	3.9	18
101	A model of late Pleistocene ice sheet growth with realistic geography and simplified cryodynamics and geodynamics. *Climate Dynamics*, **1990**, 5, 103-110	4.2	18
100	Abrupt climate transition of icy worlds from snowball to moist or runaway greenhouse. *Nature Geoscience*, **2017**, 10, 556-560	18.3	17
99	A Census of Atmospheric Variability From Seconds to Decades. *Geophysical Research Letters*, **2017**, 44, 11,201	4.9	17
98	An Initial Intercomparison of Atmospheric and Oceanic Climatology for the ICE-5G and ICE-4G Models of LGM Paleotopography. *Journal of Climate*, **2006**, 19, 3-14	4.4	17
97	A Broad-shelf effect upon postglacial relative sea level history. *Geophysical Research Letters*, **2002**, 29, 10-1-10-4	4.9	17
96	Free air gravity anomalies associated with glacial isostatic disequilibriu: Load history effects on the inference of deep mantle viscosity. *Geophysical Research Letters*, **1991**, 18, 235-238	4.9	17
95	PMIP4-CMIP6: the contribution of the Paleoclimate Modelling Intercomparison Project to CMIP6 **2016**,		17
94	Climate Anomalies Induced by the Arctic and Antarctic Oscillations: Glacial Maximum and Present-Day Perspectives. *Journal of Climate*, **2008**, 21, 459-475	4.4	16
93	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
92	A postglacial relative sea-level database for the Russian Arctic coast. *Quaternary Science Reviews*, **2018**, 199, 188-205	3.9	15
91	The role of the geothermal heat flux in driving the abyssal ocean circulation. *Geophysical Research Letters*, **2013**, 40, 3144-3149	4.9	15
90	Reply to comment on the paper On breaking internal waves over the sill in Knight Inlet *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2001**, 457, 2831-2834	2.4	15
89	Two-dimensional turbulence in homogeneous and stratified shear layers. *Geophysical and Astrophysical Fluid Dynamics*, **1993**, 69, 1-32	1.4	15
88	Uncertainty in Future Summer Precipitation in the Laurentian Great Lakes Basin: Dynamical Downscaling and the Influence of Continental-Scale Processes on Regional Climate Change. *Journal of Climate*, **2018**, 31, 2651-2673	4.4	15
87	A higher order discontinuous Galerkin, global shallow water model: Global ocean tides and aquaplanet benchmarks. *Ocean Modelling*, **2013**, 69, 93-107	3	14
86	Rapid climate change and Arctic Ocean freshening. *Geology*, **2007**, 35, 1147	5	14
85	Sensitivity studies and comprehensive evaluation of RegCM4.6.1 high-resolution climate simulations over the Tibetan Plateau. *Climate Dynamics*, **2020**, 54, 3781-3801	4.2	13

84	Three-dimensionalization of the stratified mixing layer at high Reynolds number. *Physics of Fluids*, **2011**, 23, 111701	4.4	13
83	Layered convection and the impacts of the perovskite-postperovskite phase transition on mantle dynamics under isochemical conditions. *Journal of Geophysical Research*, **2010**, 115,		13
82	History of Earth Rotation **2007**, 243-293		13
81	Ten million year histories of obliquity and precession: The influence of the ice-age cycle. *Earth and Planetary Science Letters*, **1996**, 139, 17-32	5.3	13
80	Reply to Comment by M. Gurnis. *Geophysical Research Letters*, **1993**, 20, 1665-1666	4.9	13
79	The stability of stratified jets. *Geophysical and Astrophysical Fluid Dynamics*, **1992**, 66, 101-131	1.4	13
78	Uncertainties of Glacial Isostatic Adjustment Model Predictions in North America Associated With 3D Structure. *Geophysical Research Letters*, **2020**, 47, e2020GL087944	4.9	12
77	An unstructured C-grid based method for 3-D global ocean dynamics: Free-surface formulations and tidal test cases. *Ocean Modelling*, **2009**, 28, 97-105	3	12
76	Upstream-propagating solitary waves and forced internal wave breaking in stratified flow over a sill. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2004**, 460, 3159-3190	2.4	12
75	Life, geology and snowball Earth. *Nature*, **2001**, 409, 306-306	50.4	12
74	The Formation of Oceanic Eddies in Symmetric and Asymmetric Jets. Part II: Late Time Evolution and Coherent Vortex Formation. *Journal of Physical Oceanography*, **1996**, 26, 1825-1848	2.4	12
73	Towards a climate-driven simulation of coupled surface-subsurface hydrology at the continental scale: a Canadian example. *Canadian Water Resources Journal*, **2020**, 45, 11-27	1.7	12
72	Strong effects of tropical ice-sheet coverage and thickness on the hard snowball Earth bifurcation point. *Climate Dynamics*, **2017**, 48, 3459-3474	4.2	11
71	The impact of insolation, greenhouse gas forcing and ocean circulation changes on glacial inception. *Holocene*, **2011**, 21, 803-817	2.6	11
70	Laurentide ice sheet aspect ratio in models based on Glen flow law. *Annals of Glaciology*, **2000**, 30, 177-186	1.9	11
69	Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2. *Climate of the Past*, **2021**, 17, 529-543	3.9	11
68	Influence of present day and glacial surface conditions on the Antarctic Oscillation/Southern Annular Mode. *Geophysical Research Letters*, **2006**, 33,	4.9	10
67	The Rheology of the Planetary Interior. *Journal of Rheology*, **1984**, 28, 665-697	4.1	10

66	Quaternary Geodynamics in Canada541-572		10
65	African Humid Period Precipitation Sustained by Robust Vegetation, Soil, and Lake Feedbacks. *Geophysical Research Letters*, **2020**, 47, e2020GL088728	4.9	10
64	Assimilating the ICE-6G_C Reconstruction of the Latest Quaternary Ice Age Cycle Into Numerical Simulations of the Laurentide and Fennoscandian Ice Sheets. *Journal of Geophysical Research F: Earth Surface*, **2017**, 122, 2324-2347	3.8	9
63	Implications of Both Statistical Equilibrium and Global Warming Simulations with CCSM3. Part II: On the Multidecadal Variability in the North Atlantic Basin. *Journal of Climate*, **2009**, 22, 5298-5318	4.4	9
62	Improved Internal Wave Spectral Continuum in a Regional Ocean Model. *Journal of Geophysical Research: Oceans*, **2020**, 125, e2019JC015974	3.3	8
61	The impacts of mantle phase transitions and the iron spin crossover in ferropericlase on convective mixing: Is the evidence for compositional convection definitive? New results from a Yin-Yang overset grid-based control volume model. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 5884-5910	3.6	8
60	A carbon cycle coupled climate model of Neoproterozoic glaciation: Explicit carbon cycle with stochastic perturbations. *Journal of Geophysical Research*, **2011**, 116,		8
59	Turbulence transition in stratified atmospheric and oceanic shear flows: Reynolds and Prandtl number controls upon the mechanism. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	8
58	On box models of the North Atlantic thermohaline circulation: Intrinsic and extrinsic millennial timescale variability in response to deterministic and stochastic forcing. *Journal of Geophysical Research*, **2007**, 112,		8
57	Instability and transition in finite-amplitude Kelvin–Helmholtz and Holmboe waves. *Journal of Fluid Mechanics Digital Archive*, **1991**, 228, 387		8
56	Glacial isostatic adjustment and the free air gravity anomaly as a constraint on deep mantle viscosity		8
55	Evaluation of Arctic warming in mid-Pliocene climate simulations. *Climate of the Past*, **2020**, 16, 2325-2341	3.9	8
54	The PMIP4-CMIP6 Last Glacial Maximum experiments: preliminary results and comparison with the PMIP3-CMIP5 simulations		8
53	Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments		8
52	Drier tropical and subtropical Southern Hemisphere in the mid-Pliocene Warm Period. *Scientific Reports*, **2020**, 10, 13458	4.9	8
51	The History of the Earth's Rotation: Impacts of Deep Earth Physics and Surface Climate Variability **2015**, 221-279		7
50	Projected Hydroclimatic Changes in Two Major River Basins at the Canadian West Coast Based on High-Resolution Regional Climate Simulations. *Journal of Climate*, **2017**, 30, 8081-8105	4.4	7
49	Climate Dynamics in Deep Time: Modeling the 'Snowball Bifurcation' and Assessing the Plausibility of its Occurrence. *Geophysical Monograph Series*, **2013**, 107-124	1.1	7

48	Examining Internal and External Contributors to Greenland Climate Variability Using CCSM3. *Journal of Climate*, **2013**, 26, 9745-9773	4.4	7
47	Dynamically Downscaled Climate Change Projections for the South Asian Monsoon: Mean and Extreme Precipitation Changes and Physics Parameterization Impacts. *Journal of Climate*, **2020**, 33, 2311-2331	4.4	7
46	Dynamically Downscaled Climate Simulations of the Indian Monsoon in the Instrumental Era: Physics Parameterization Impacts and Precipitation Extremes. *Journal of Applied Meteorology and Climatology*, **2019**, 58, 831-852	2.7	6
45	Science Needs for Sea-Level Adaptation Planning: Comparisons among Three U.S. Atlantic Coastal Regions. *Coastal Management*, **2015**, 43, 555-574	3.3	6
44	Models of Glacial Isostasy and Relative Sea Level. *Geodynamic Series*, **2013**, 111-128		6
43	Mantle Dynamics and the D? Layer: Impacts of the Post Perovskite Phase. *Geophysical Monograph Series*, **2007**, 217-227	1.1	6
42	The Tides of the Glacial Ocean and Their Possible Connection to Heinrich Event Instabilities of the Laurentide Ice Sheet. *Journal of Geophysical Research: Oceans*, **2020**, 125, e2019JC015444	3.3	5
41	Peltier & Liu reply. *Nature*, **2008**, 456, E9-E10	50.4	5
40	Rapid climate change and Arctic Ocean freshening: COMMENT and REPLY: REPLY. *Geology*, **2008**, 36, e178-e178	5	5
39	Deglaciation-Induced Climate Variability. *Journal of the Meteorological Society of Japan*, **1998**, 76, 1029-1044	1.8	5
38	Effect of altered boundary conditions on GCM studies of the climate of the Last Glacial Maximum. *Geophysical Research Letters*, **1993**, 20, 939-942	4.9	5
37	Frontal cyclogenesis and the geostrophic momentum approximation. *Geophysical and Astrophysical Fluid Dynamics*, **1989**, 45, 183-197	1.4	5
36	A return to large-scale features of Pliocene climate: the Pliocene Model Intercomparison Project Phase 2		5
35	Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models		5
34	Layered convection in Io: Implications for short-wavelength surface topography and heat flow. *Icarus*, **2013**, 225, 15-27	3.8	4
33	Sea level variations during snowball Earth formation and evolution: 2. The influence of Earth's rotation. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 4425-4445	3.6	4
32	Atmospheric susceptibility to wildfire occurrence during the Last Glacial Maximum and mid-Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2010**, 295, 76-88	2.9	4
31	Postglacial coastal evolution: Ice–Ocean–Solid Earth interactions in a period of rapid climate change **2007**,		4

30	On the nonlinear evolution of columnar vortices in a rotating environment. *Geophysical and Astrophysical Fluid Dynamics*, **2003**, 97, 365-391	1.4	4
29	Dynamics of the ice-age Earth: Solid mechanics and fluid mechanics. *European Physical Journal Special Topics*, **2002**, 12, 85-104		4
28	A Paleoclimatic Model of the Mid-Pleistocene Climate Transition. *Annals of Glaciology*, **1990**, 14, 47-50	2.5	4
27	Large-scale features and evaluation of the PMIP4-CMIP6 <i>midHolocene</i> simulations		4
26	The Viscosity of the Top Third of the Lower Mantle Estimated Using GPS, GRACE, and Relative Sea Level Measurements of Glacial Isostatic Adjustment. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2020JB021537	3.6	4
25	Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks.. *Nature Communications*, **2022**, 13, 1306	17.4	4
24	Attributing observed Greenland responses to natural and anthropogenic climate forcings. *Climate Dynamics*, **2015**, 45, 2919-2936	4.2	3
23	The Influence of Deep Ocean Diffusivity on the Temporal Variability of the Thermohaline Circulation. *Geophysical Monograph Series*, **2013**, 227-242	1.1	3
22	Radiative effects of ozone on the climate of a Snowball Earth. *Climate of the Past*, **2012**, 8, 2019-2029	3.9	3
21	Influence of Surface Topography on the Critical Carbon Dioxide Level Required for the Formation of a Modern Snowball Earth. *Journal of Climate*, **2018**, 31, 8463-8479	4.4	3
20	Numerical Investigation of Mechanisms Underlying Oceanic Internal Gravity Wave Power-Law Spectra. *Journal of Physical Oceanography*, **2020**, 50, 2713-2733	2.4	2
19	Reduced El Niño variability in the mid-Pliocene according to the PlioMIP2 ensemble. *Climate of the Past*, **2021**, 17, 2427-2450	3.9	2
18	Response : Paleotopography of Glacial-Age Ice Sheets. *Science*, **1995**, 267, 536-538	33.3	2
17	The initiation of modern soft and hard Snowball Earth climates in CCSM4		2
16	Transient climate simulations of the deglaciation 21–9 thousand years before present; PMIP4 Core experiment design and boundary conditions		2
15	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
14	The KPP Trigger of Rapid AMOC Intensification in the Nonlinear Dansgaard-Oeschger Relaxation Oscillation. *Journal of Geophysical Research: Oceans*, **2020**, 125, e2019JC015557	3.3	1
13	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

12	Cyclogenesis and frontogenesis. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **1990**, 42, 3-13	2	1
11	An investigation of the possibility of non-Laurentide ice stream contributions to Heinrich event 3. *Quaternary Research*,1-13	1.9	1
10	Out of the Ice Age: Megatides of the Arctic Ocean and the B□ling-□ler□, Younger Dryas Transition. *Geophysical Research Letters*, **2020**, 47, e2020GL089870	4.9	1
9	The southeast asian monsoon: dynamically downscaled climate change projections and high resolution regional ocean modelling on the effects of the Tibetan Plateau. *Climate Dynamics*, **2021**, 56, 2597-2616	4.2	1
8	Influence of 3D Earth Structure on Glacial Isostatic Adjustment in the Russian Arctic. *Journal of Geophysical Research: Solid Earth*, **2022**, 127,	3.6	1
7	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
6	Spatiotemporal development of irreversible mixing in midlatitude baroclinic wave life cycles: Morphology, energetics, and nonisentropic mixing activity. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 3663-3686	4.4	
5	W. R. Peltier Receives 2010 Charles A. Whitten Medal. *Eos*, **2011**, 92, 32-33	1.5	
4	Hydrodynamic Complexity in the Earth System. *Geophysical Monograph Series*, **1990**, 43-44	1.1	
3	A Spectral Model of the Ice-Age Cycle with Glacial Isostatic Adjustment (Abstract). *Annals of Glaciology*, **1984**, 5, 223	2.5	
2	A Paleoclimatic Model of the Mid-Pleistocene Climate Transition. *Annals of Glaciology*, **1990**, 14, 47-50	2.5	
1	A Spectral Model of the Ice-Age Cycle with Glacial Isostatic Adjustment (Abstract). *Annals of Glaciology*, **1984**, 5, 223-223	2.5	