W Richard Peltier

List of Publications by Year in Descending Order

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	Influence of 3D Earth Structure on Glacial Isostatic Adjustment in the Russian Arctic. *Journal of Geophysical Research: Solid Earth*, **2022**, 127,	3.6	1
298	Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks.. *Nature Communications*, **2022**, 13, 1306	17.4	4
297	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
296	Reduced El Niño variability in the mid-Pliocene according to the PlioMIP2 ensemble. *Climate of the Past*, **2021**, 17, 2427-2450	3.9	2
295	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
294	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
293	Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2. *Climate of the Past*, **2021**, 17, 529-543	3.9	11
292	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
291	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
290	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
289	Uncertainties of Glacial Isostatic Adjustment Model Predictions in North America Associated With 3D Structure. *Geophysical Research Letters*, **2020**, 47, e2020GL087944	4.9	12
288	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
287	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
286	Improved Internal Wave Spectral Continuum in a Regional Ocean Model. *Journal of Geophysical Research: Oceans*, **2020**, 125, e2019JC015974	3.3	8
285	Numerical Investigation of Mechanisms Underlying Oceanic Internal Gravity Wave Power-Law Spectra. *Journal of Physical Oceanography*, **2020**, 50, 2713-2733	2.4	2
284	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
283	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

282	Large-scale features and evaluation of the PMIP4-CMIP6 <i>midHolocene</i> simulations. *Climate of the Past*, **2020**, 16, 1847-1872	3.9	37
281	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
280	Evaluation of Arctic warming in mid-Pliocene climate simulations. *Climate of the Past*, **2020**, 16, 2325-2341	3.9	8
279	Out of the Ice Age: Megatides of the Arctic Ocean and the Bølling-Allerød, Younger Dryas Transition. *Geophysical Research Letters*, **2020**, 47, e2020GL089870	4.9	1
278	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
277	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
276	African Humid Period Precipitation Sustained by Robust Vegetation, Soil, and Lake Feedbacks. *Geophysical Research Letters*, **2020**, 47, e2020GL088728	4.9	10
275	Drier tropical and subtropical Southern Hemisphere in the mid-Pliocene Warm Period. *Scientific Reports*, **2020**, 10, 13458	4.9	8
274	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
273	Deploying a Top-100 Supercomputer for Large Parallel Workloads **2019**,		40
272	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
271	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
270	Deep learning of mixing by two 'atoms' of stratified turbulence. *Journal of Fluid Mechanics*, **2019**, 861,	3.7	22
269	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
268	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
267	Fast Physics and Slow Physics in the Nonlinear Dansgaard–Oeschger Relaxation Oscillation. *Journal of Climate*, **2018**, 31, 3423-3449	4.4	26
266	A postglacial relative sea-level database for the Russian Arctic coast. *Quaternary Science Reviews*, **2018**, 199, 188-205	3.9	15
265	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

264	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
263	Self-organized criticality of turbulence in strongly stratified mixing layers. *Journal of Fluid Mechanics*, **2018**, 856, 228-256	3.7	20
262	Postglacial relative sea-level histories along the eastern Canadian coastline. *Quaternary Science Reviews*, **2018**, 201, 124-146	3.9	26
261	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
260	The PMIP4 contribution to CMIP6 Part 1: Overview and over-arching analysis plan. *Geoscientific Model Development*, **2018**, 11, 1033-1057	6.3	106
259	Relative sea-level changes during the Holocene in the Rō de la Plata, Argentina and Uruguay: A review. *Quaternary International*, **2017**, 442, 35-49	2	23
258	Efficiency of turbulent mixing in the abyssal ocean circulation. *Geophysical Research Letters*, **2017**, 44, 6296-6306	4.9	50
257	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
256	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
255	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
254	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
253	Abrupt climate transition of icy worlds from snowball to moist or runaway greenhouse. *Nature Geoscience*, **2017**, 10, 556-560	18.3	17
252	Role of overturns in optimal mixing in stratified mixing layers. *Journal of Fluid Mechanics*, **2017**, 826, 522-552	3.7	26
251	A Census of Atmospheric Variability From Seconds to Decades. *Geophysical Research Letters*, **2017**, 44, 11,201	4.9	17
250	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
249	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
248	Drivers of Holocene sea-level change in the Caribbean. *Quaternary Science Reviews*, **2017**, 155, 13-36	3.9	85
247	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

246	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
245	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
244	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
243	Relative sea-level change in northeastern Florida (USA) during the last ~8.0 ka. *Quaternary Science Reviews*, **2016**, 142, 90-101	3.9	19
242	Transient climate simulations of the deglaciation 21 thousand years before present (version 1) PMIP4 Core experiment design and boundary conditions. *Geoscientific Model Development*, **2016**, 9, 2563-2587	6.3	58
241	PMIP4-CMIP6: the contribution of the Paleoclimate Modelling Intercomparison Project to CMIP6 **2016**,		17
240	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
239	Turbulent mixing due to the Holmboe wave instability at high Reynolds number. *Journal of Fluid Mechanics*, **2016**, 803, 591-621	3.7	33
238	On the reconstruction of palaeo-ice sheets: Recent advances and future challenges. *Quaternary Science Reviews*, **2015**, 125, 15-49	3.9	100
237	The History of the Earth's Rotation: Impacts of Deep Earth Physics and Surface Climate Variability **2015**, 221-279		7
236	Interhemispheric air temperature phase relationships in the nonlinear Dansgaard-Oeschger oscillation. *Geophysical Research Letters*, **2015**, 42, 1180-1189	4.9	25
235	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
234	Diapycnal diffusivity, turbulent Prandtl number and mixing efficiency in Boussinesq stratified turbulence. *Journal of Fluid Mechanics*, **2015**, 775, 464-500	3.7	56
233	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
232	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
231	Holocene Relative Sea-Level Changes from Near-, Intermediate-, and Far-Field Locations. *Current Climate Change Reports*, **2015**, 1, 247-262	9	83
230	Influence of Enhanced Abyssal Diapycnal Mixing on Stratification and the Ocean Overturning Circulation. *Journal of Physical Oceanography*, **2015**, 45, 2580-2597	2.4	31
229	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

228	Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments. *Geoscientific Model Development*, **2015**, 8, 3621-3637	6.3	68
227	Attributing observed Greenland responses to natural and anthropogenic climate forcings. *Climate Dynamics*, **2015**, 45, 2919-2936	4.2	3
226	Science Needs for Sea-Level Adaptation Planning: Comparisons among Three U.S. Atlantic Coastal Regions. *Coastal Management*, **2015**, 43, 555-574	3.3	6
225	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
224	Dynamically Downscaled High-Resolution Hydroclimate Projections for Western Canada. *Journal of Climate*, **2015**, 28, 423-450	4.4	22
223	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
222	Climate change impacts on Great Lakes Basin precipitation extremes. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 10,799-10,812	4.4	33
221	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	
220	Dansgaard-Oeschger oscillations predicted in a comprehensive model of glacial climate: A kicked salt oscillator in the Atlantic. *Geophysical Research Letters*, **2014**, 41, 7306-7313	4.9	110
219	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
218	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
217	Layered convection in Io: Implications for short-wavelength surface topography and heat flow. *Icarus*, **2013**, 225, 15-27	3.8	4
216	A higher order discontinuous Galerkin, global shallow water model: Global ocean tides and aquaplanet benchmarks. *Ocean Modelling*, **2013**, 69, 93-107	3	14
215	The Influence of Deep Ocean Diffusivity on the Temporal Variability of the Thermohaline Circulation. *Geophysical Monograph Series*, **2013**, 227-242	1.1	3
214	The role of the geothermal heat flux in driving the abyssal ocean circulation. *Geophysical Research Letters*, **2013**, 40, 3144-3149	4.9	15
213	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
212	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
211	Examining Internal and External Contributors to Greenland Climate Variability Using CCSM3. *Journal of Climate*, **2013**, 26, 9745-9773	4.4	7

210	Sea level variations during snowball Earth formation: 1. A preliminary analysis. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 4410-4424	3.6	22
209	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
208	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
207	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
206	The initiation of Neoproterozoic "snowball" climates in CCSM3: the influence of paleocontinental configuration. *Climate of the Past*, **2013**, 9, 2555-2577	3.9	23
205	Models of Glacial Isostasy and Relative Sea Level. *Geodynamic Series*, **2013**, 111-128		6
204	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
203	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
202	The 'zoo' 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
201	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
200	Comment on 'Ocean mass from GRACE and glacial isostatic adjustment' by D. P. Chambers et al.. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		24
199	The initiation of modern soft and hard Snowball Earth climates in CCSM4. *Climate of the Past*, **2012**, 8, 907-918	3.9	32
198	Radiative effects of ozone on the climate of a Snowball Earth. *Climate of the Past*, **2012**, 8, 2019-2029	3.9	3
197	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
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	High tide of the warm Pliocene: Implications of global sea level for Antarctic deglaciation. *Geology*, **2012**, 40, 407-410	5	193
194	The high-pressure electronic spin transition in iron: Potential impacts upon mantle mixing. *Journal of Geophysical Research*, **2011**, 116,		21
193	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

192	A carbon cycle coupled climate model of Neoproterozoic glaciation: Explicit carbon cycle with stochastic perturbations. *Journal of Geophysical Research*, **2011**, 116,		8
191	W. R. Peltier Receives 2010 Charles A. Whitten Medal. *Eos*, **2011**, 92, 32-33	1.5	
190	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
189	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
188	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
187	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
186	Model-dependence of the CO₂ threshold for melting the hard Snowball Earth. *Climate of the Past*, **2011**, 7, 17-25	3.9	18
185	Three-dimensionalization of the stratified mixing layer at high Reynolds number. *Physics of Fluids*, **2011**, 23, 111701	4.4	13
184	Holocene relative sea-level changes and glacial isostatic adjustment of the U.S. Atlantic coast. *Geology*, **2011**, 39, 751-754	5	91
183	The impact of insolation, greenhouse gas forcing and ocean circulation changes on glacial inception. *Holocene*, **2011**, 21, 803-817	2.6	11
182	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
181	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
180	Layered convection and the impacts of the perovskite-postperovskite phase transition on mantle dynamics under isochemical conditions. *Journal of Geophysical Research*, **2010**, 115,		13
179	A carbon cycle coupled climate model of Neoproterozoic glaciation: Influence of continental configuration on the formation of a □oft snowball□ *Journal of Geophysical Research*, **2010**, 115,		30
178	Deepest mantle viscosity: Constraints from Earth rotation anomalies. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	20
177	Atmospheric susceptibility to wildfire occurrence during the Last Glacial Maximum and mid-Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2010**, 295, 76-88	2.9	4
176	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
175	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

174	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
173	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
172	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
171	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
170	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
169	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
168	Peltier & Liu reply. *Nature*, **2008**, 456, E9-E10	50.4	5
167	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
166	Dynamics of groundwater recharge and seepage over the Canadian landscape during the Wisconsinian glaciation. *Journal of Geophysical Research*, **2008**, 113,		106
165	Simulating the impact of glaciations on continental groundwater flow systems: 1. Relevant processes and model formulation. *Journal of Geophysical Research*, **2008**, 113,		36
164	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
163	Red Sea during the Last Glacial Maximum: Implications for sea level reconstruction. *Paleoceanography*, **2008**, 23, n/a-n/a		45
162	Megatides in the Arctic Ocean under glacial conditions. *Geophysical Research Letters*, **2008**, 35,	4.9	45
161	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
160	Rapid climate change and Arctic Ocean freshening: COMMENT and REPLY: REPLY. *Geology*, **2008**, 36, e178-e178	5	5
159	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
158	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
157	Coevolution of continental ice cover and permafrost extent over the last glacial-interglacial cycle in North America. *Journal of Geophysical Research*, **2007**, 112,		39

156	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
155	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
154	Mantle Dynamics and the D? Layer: Impacts of the Post Perovskite Phase. *Geophysical Monograph Series*, **2007**, 217-227	1.1	6
153	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
152	Snowball Earth prevention by dissolved organic carbon remineralization. *Nature*, **2007**, 450, 813-8	50.4	80
151	Glacial-Isostatic Adjustment-I. The Forward Problem. *Geophysical Journal of the Royal Astronomical Society*, **2007**, 46, 605-646		372
150	Glacial-Isostatic Adjustment-II. The Inverse Problem. *Geophysical Journal of the Royal Astronomical Society*, **2007**, 46, 669-705		210
149	History of Earth Rotation **2007**, 243-293		13
148	Rapid climate change and Arctic Ocean freshening. *Geology*, **2007**, 35, 1147	5	14
147	Postglacial coastal evolution: Ice-ocean-solid Earth interactions in a period of rapid climate change **2007**,		4
146	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
145	Influence of present day and glacial surface conditions on the Antarctic Oscillation/Southern Annular Mode. *Geophysical Research Letters*, **2006**, 33,	4.9	10
144	Atlantic meridional overturning and climate response to Arctic Ocean freshening. *Geophysical Research Letters*, **2006**, 33,	4.9	38
143	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
142	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
141	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
140	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
139	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

138	Past and future polar amplification of climate change: climate model intercomparisons and ice-core constraints. *Climate Dynamics*, **2006**, 26, 513-529	4.2	205
137	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
136	On the hemispheric origins of meltwater pulse 1a. *Quaternary Science Reviews*, **2005**, 24, 1655-1671	3.9	85
135	On the resonant generation of large-amplitude internal solitary and solitary-like waves. *Journal of Fluid Mechanics*, **2005**, 543, 267	3.7	39
134	Mid-Holocene NAO: A PMIP2 model intercomparison. *Geophysical Research Letters*, **2005**, 32,	4.9	64
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