Lauren J Gregoire

List of Publications by Citations

33 papers	958 citations	17 h-index	30 g-index
48 ext. papers	1,198 ext. citations	7.6 avg, IF	4.36 L-index

#	Paper	IF	Citations
33	Deglacial rapid sea level rises caused by ice-sheet saddle collapses. *Nature*, **2012**, 487, 219-22	50.4	144
32	Monsoon response to changes in Earth's orbital parameters: comparisons between simulations of the Eemian and of the Holocene. *Climate of the Past*, **2008**, 4, 281-294	3.9	100
31	The 8.2 ka cooling event caused by Laurentide ice saddle collapse. *Earth and Planetary Science Letters*, **2017**, 473, 205-214	5.3	64
30	Global peatland initiation driven by regionally asynchronous warming. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4851-4856	11.5	60
29	Coherent deglacial changes in western Atlantic Ocean circulation. *Nature Communications*, **2018**, 9, 2947	17.4	58
28	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
27	Ice sheets matter for the global carbon cycle. *Nature Communications*, **2019**, 10, 3567	17.4	48
26	The Early Eocene equable climate problem: can perturbations of climate model parameters identify possible solutions?. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2013**, 371, 20130123	3	47
25	Abrupt Bølling warming and ice saddle collapse contributions to the Meltwater Pulse 1a rapid sea level rise. *Geophysical Research Letters*, **2016**, 43, 9130-9137	4.9	46
24	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
23	Collapse of the North American ice saddle 14,500 years ago caused widespread cooling and reduced ocean overturning circulation. *Geophysical Research Letters*, **2017**, 44, 383-392	4.9	28
22	Sensitivity of modern climate to the presence, strength and salinity of Mediterranean-Atlantic exchange in a global general circulation model. *Climate Dynamics*, **2014**, 42, 859-877	4.2	28
21	Ocean mixing and ice-sheet control of seawater 234U/238U during the last deglaciation. *Science*, **2016**, 354, 626-629	33.3	28
20	Optimal tuning of a GCM using modern and glacial constraints. *Climate Dynamics*, **2011**, 37, 705-719	4.2	26
19	Laurentide-Cordilleran Ice Sheet saddle collapse as a contribution to meltwater pulse 1A. *Geophysical Research Letters*, **2015**, 42, 3954-3962	4.9	25
18	The parameterisation of Mediterranean–Atlantic water exchange in the Hadley Centre model HadCM3, and its effect on modelled North Atlantic climate. *Ocean Modelling*, **2013**, 62, 11-16	3	19
17	Acceleration of Northern Ice Sheet Melt Induces AMOC Slowdown and Northern Cooling in Simulations of the Early Last Deglaciation. *Paleoceanography and Paleoclimatology*, **2018**, 33, 807-824	3.3	19

16	Marine ice sheet instability and ice shelf buttressing of the Minch Ice Stream, northwest Scotland. *Cryosphere*, **2018**, 12, 3635-3651	5.5	17
15	The penultimate deglaciation: protocol for Paleoclimate Modelling Intercomparison Project (PMIP) phase 4 transient numerical simulations between 140 and 127 ka, version 1.0. *Geoscientific Model Development*, **2019**, 12, 3649-3685	6.3	16
14	The relative contribution of orbital forcing and greenhouse gases to the North American deglaciation. *Geophysical Research Letters*, **2015**, 42, 9970-9979	4.9	15
13	Tropical coral reef habitat in a geoengineered, high-CO2 world. *Geophysical Research Letters*, **2013**, 40, 1799-1805	4.9	15
12	An efficient method to generate a perturbed parameter ensemble of a fully coupled AOGCM without flux-adjustment. *Geoscientific Model Development*, **2013**, 6, 1447-1462	6.3	14
11	Investigating the 8.2 ka event in northwestern Madagascar: Insight from data□model comparisons. *Quaternary Science Reviews*, **2019**, 204, 172-186	3.9	11
10	Exploring the ingredients required to successfully model the placement, generation, and evolution of ice streams in the British-Irish Ice Sheet. *Quaternary Science Reviews*, **2019**, 223, 105915	3.9	10
9	Holocene lowering of the Laurentide ice sheet affects North Atlantic gyre circulation and climate. *Climate Dynamics*, **2018**, 51, 3797-3813	4.2	8
8	Climatic Effect of Antarctic Meltwater Overwhelmed by Concurrent Northern Hemispheric Melt. *Geophysical Research Letters*, **2018**, 45, 5681-5689	4.9	7
7	Collapse of the Last Eurasian Ice Sheet in the North Sea Modulated by Combined Processes of Ice Flow, Surface Melt, and Marine Ice Sheet Instabilities. *Journal of Geophysical Research F: Earth Surface*, **2021**, 126, e2020JF005755	3.8	5
6	Drivers of Holocene palsa distribution in North America. *Quaternary Science Reviews*, **2020**, 240, 106337	3.9	3
5	Ocean circulation drifts in multi-millennial climate simulations: the role of salinity corrections and climate feedbacks. *Climate Dynamics*, **2019**, 52, 1761-1781	4.2	2
4	Transient climate simulations of the deglaciation 21□ thousand years before present; PMIP4 Core experiment design and boundary conditions		2
3	Simulating the Early Holocene demise of the Laurentide Ice Sheet with BISICLES (public trunk revision 3298). *Geoscientific Model Development*, **2020**, 13, 4555-4577	6.3	1
2	Simulating stable carbon isotopes in the ocean component of the FAMOUS general circulation model with MOSES1 (XOAVI). *Geoscientific Model Development*, **2020**, 13, 3529-3552	6.3	1
1	Effect of orographic gravity wave drag on Northern Hemisphere climate in transient simulations of the last deglaciation. *Climate Dynamics*,1	4.2	0