Peter Hopcroft

List of Publications by Citations

37 papers	1,248 citations	16 h-index	35 g-index
51 ext. papers	1,536 ext. citations	7 avg, IF	4.14 L-index

#	Paper	IF	Citations
37	Present state of global wetland extent and wetland methane modelling: conclusions from a model inter-comparison project (WETCHIMP). *Biogeosciences*, **2013**, 10, 753-788	4.6	382
36	Present state of global wetland extent and wetland methane modelling: methodology of a model inter-comparison project (WETCHIMP). *Geoscientific Model Development*, **2013**, 6, 617-641	6.3	128
35	The BRIDGE HadCM3 family of climate models: HadCM3@Bristol v1.0. *Geoscientific Model Development*, **2017**, 10, 3715-3743	6.3	106
34	The PMIP4 contribution to CMIP6 – Part 1: Overview and over-arching analysis plan. *Geoscientific Model Development*, **2018**, 11, 1033-1057	6.3	106
33	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
32	Inference of past climate from borehole temperature data using Bayesian Reversible Jump Markov chain Monte Carlo. *Geophysical Journal International*, **2007**, 171, 1430-1439	2.6	39
31	Simulating idealized Dansgaard-Oeschger events and their potential impacts on the global methane cycle. *Quaternary Science Reviews*, **2011**, 30, 3258-3268	3.9	36
30	Climate and carbon cycle response to the 1815 Tambora volcanic eruption. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 12,497-12,507	4.4	30
29	Last glacial maximum radiative forcing from mineral dust aerosols in an Earth system model. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 8186-8205	4.4	28
28	Multi vegetation model evaluation of the Green Sahara climate regime. *Geophysical Research Letters*, **2017**, 44, 6804-6813	4.9	27
27	Understanding the glacial methane cycle. *Nature Communications*, **2017**, 8, 14383	17.4	22
26	Last glacial maximum constraints on the Earth System model HadGEM2-ES. *Climate Dynamics*, **2015**, 45, 1657-1672	4.2	22
25	A Bayesian partition modelling approach to resolve spatial variability in climate records from borehole temperature inversion. *Geophysical Journal International*, **2009**, 178, 651-666	2.6	21
24	Controls on the tropospheric oxidizing capacity during an idealized Dansgaard-Oeschger event, and their implications for the rapid rises in atmospheric methane during the last glacial period. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	18
23	How well do simulated last glacial maximum tropical temperatures constrain equilibrium climate sensitivity?. *Geophysical Research Letters*, **2015**, 42, 5533-5539	4.9	17
22	PMIP4-CMIP6: the contribution of the Paleoclimate Modelling Intercomparison Project to CMIP6 **2016**,		17
21	Impact of abrupt sea ice loss on Greenland water isotopes during the last glacial period. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 4099-4104	11.5	16

20	On the Role of Dust-Climate Feedbacks During the Mid-Holocene. *Geophysical Research Letters*, **2019**, 46, 1612-1621	4.9	15
19	Response of methane emissions from wetlands to the Last Glacial Maximum and an idealized Dansgaard□Oeschger climate event: insights from two models of different complexity. *Climate of the Past*, **2013**, 9, 149-171	3.9	13
18	Present state of global wetland extent and wetland methane modelling: conclusions from a model intercomparison project (WETCHIMP)		13
17	Reduced cooling following future volcanic eruptions. *Climate Dynamics*, **2018**, 51, 1449-1463	4.2	11
16	Evaluation of biospheric components in Earth system models using modern and palaeo-observations: the state-of-the-art. *Biogeosciences*, **2013**, 10, 8305-8328	4.6	10
15	Present state of global wetland extent and wetland methane modelling: methodology of a model intercomparison project (WETCHIMP) **2012**,		10
14	The BRIDGE HadCM3 family of climate models: HadCM3@Bristol v1.0 **2017**,		9
13	Three-dimensional simulation and inversion of borehole temperatures for reconstructing past climate in complex settings. *Journal of Geophysical Research*, **2009**, 114,		8
12	A simulated Northern Hemisphere terrestrial climate dataset for the past 60,000 years. *Scientific Data*, **2019**, 6, 265	8.2	8
11	Limited response of peatland CH₄ emissions to abrupt Atlantic Ocean circulation changes in glacial climates. *Climate of the Past*, **2014**, 10, 137-154	3.9	7
10	Bayesian Analysis of the Glacial-Interglacial Methane Increase Constrained by Stable Isotopes and Earth System Modeling. *Geophysical Research Letters*, **2018**, 45, 3653-3663	4.9	6
9	Reassessing the Value of Regional Climate Modeling Using Paleoclimate Simulations. *Geophysical Research Letters*, **2019**, 46, 12464-12475	4.9	4
8	Polar amplification of Pliocene climate by elevated trace gas radiative forcing. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 23401-23407	11.5	4
7	Response of methane emissions from wetlands to the Last Glacial Maximum and an idealized Dansgaard-Oeschger climate event: insights from two models of different complexity		3
6	Simulation of the mid-Pliocene Warm Period using HadGEM3: experimental design and results from model□model and model□data comparison. *Climate of the Past*, **2021**, 17, 2139-2163	3.9	3
5	Controls on the Tropical Response to Abrupt Climate Changes. *Geophysical Research Letters*, **2020**, 47, e2020GL087518	4.9	1
4	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
3	Atmospheric science: Ancient ice and the global methane cycle. *Nature*, **2017**, 548, 403-404	50.4	1

2	Limited response of peatland CH₄ emissions to abrupt Atlantic Ocean circulation changes in glacial climates		1
1	Using the Mid-Holocene □greening□ of the Sahara to Narrow Acceptable Ranges on Climate Model Parameters. *Geophysical Research Letters*, **2021**, 48, e2020GL092043	4.9	1