Robin S Smith

List of Publications by Year in Descending Order

40 papers	1,459 citations	20 h-index	38 g-index
52 ext. papers	2,007 ext. citations	6.3 avg, IF	4.46 L-index

#	Paper	IF	Citations
40	The Physical Climate at Global Warming Thresholds as seen in the UK Earth System Model. *Journal of Climate*, **2021**, 1-64	4.4	3
39	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
38	Projected land ice contributions to twenty-first-century sea level rise. *Nature*, **2021**, 593, 74-82	50.4	45
37	FORTE 2.0: a fast, parallel and flexible coupled climate model. *Geoscientific Model Development*, **2021**, 14, 275-293	6.3	0
36	Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets. *Geophysical Research Letters*, **2021**, 48, e2020GL091741	4.9	7
35	FAMOUS version xotzt (FAMOUS-ice): a general circulation model (GCM) capable of energy- and water-conserving coupling to an ice sheet model. *Geoscientific Model Development*, **2021**, 14, 5769-5787	6.3	3
34	Earth system music: music generated from the United Kingdom Earth System Model (UKESM1). *Geoscience Communication*, **2020**, 3, 263-278	0.7	2
33	Earth System Model Evaluation Tool (ESMValTool) v2.0 □ an extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP. *Geoscientific Model Development*, **2020**, 13, 3383-3438	6.3	32
32	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. *Cryosphere*, **2020**, 14, 2331-2368	5.5	32
31	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. *Cryosphere*, **2020**, 14, 3033-3070	5.5	71
30	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. *Cryosphere*, **2020**, 14, 3071-3096	5.5	62
29	Large and irreversible future decline of the Greenland ice sheet. *Cryosphere*, **2020**, 14, 4299-4322	5.5	6
28	Observable, low-order dynamical controls on thresholds of the Atlantic meridional overturning circulation. *Climate Dynamics*, **2019**, 53, 6815-6834	4.2	9
27	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
26	Continental drift, plateau uplift, and the evolutions of monsoon and arid regions in Asia, Africa, and Australia during the Cenozoic. *Science China Earth Sciences*, **2019**, 62, 1053-1075	4.6	8
25	UKESM1: Description and Evaluation of the U.K. Earth System Model. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 4513-4558	7.1	213
24	Global glacier volume projections under high-end climate change scenarios. *Cryosphere*, **2019**, 13, 325-350	5.5	45

23	Global warming and ocean stratification: A potential result of large extraterrestrial impacts. *Geophysical Research Letters*, **2017**, 44, 3841-3848	4.9	8
22	Continental drift and plateau uplift control origination and evolution of Asian and Australian monsoons. *Scientific Reports*, **2017**, 7, 40344	4.9	19
21	Improved Climate Simulations through a Stochastic Parameterization of Ocean Eddies. *Journal of Climate*, **2016**, 29, 8763-8781	4.4	19
20	Terrestrial biosphere changes over the last 120 kyr. *Climate of the Past*, **2016**, 12, 51-73	3.9	31
19	Irreducible uncertainty in near-term climate projections. *Climate Dynamics*, **2016**, 46, 3807-3819	4.2	93
18	Ocean Heat Uptake Processes: A Model Intercomparison. *Journal of Climate*, **2015**, 28, 887-908	4.4	42
17	Where were the monsoon regions and arid zones in Asia prior to the Tibetan Plateau uplift?. *National Science Review*, **2015**, 2, 403-416	10.8	25
16	The drivers of projected North Atlantic sea level change. *Climate Dynamics*, **2014**, 43, 1531-1544	4.2	34
15	The Holocene temperature conundrum. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3501-5	11.5	198
14	The impact of salinity perturbations on the future uptake of heat by the Atlantic Ocean. *Geophysical Research Letters*, **2014**, 41, 9072-9079	4.9	6
13	Response of the Atlantic meridional overturning circulation to a reversal of greenhouse gas increases. *Climate Dynamics*, **2014**, 42, 3323-3336	4.2	8
12	Optimising the FAMOUS climate model: inclusion of global carbon cycling. *Geoscientific Model Development*, **2013**, 6, 141-160	6.3	14
11	Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity. *Climate of the Past*, **2013**, 9, 1111-1140	3.9	127
10	Mountain ranges favour vigorous Atlantic meridional overturning. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	31
9	The last glacial cycle: transient simulations with an AOGCM. *Climate Dynamics*, **2012**, 38, 1545-1559	4.2	48
8	The FAMOUS climate model (versions XFXWB and XFHCC): description update to version XDBUA. *Geoscientific Model Development*, **2012**, 5, 269-276	6.3	35
7	A study of the sensitivity of ocean overturning circulation and climate to freshwater input in different regions of the North Atlantic. *Geophysical Research Letters*, **2009**, 36, n/a-n/a	4.9	55
6	A description of the FAMOUS (version XDBUA) climate model and control run. *Geoscientific Model Development*, **2008**, 1, 53-68	6.3	78

5	Factors influencing anthropogenic carbon dioxide uptake in the North Atlantic in models of the ocean carbon cycle. *Climate Dynamics*, **2008**, 31, 599-613	4.2	2
4	Global Climate and Ocean Circulation on an Aquaplanet Ocean–Atmosphere General Circulation Model. *Journal of Climate*, **2006**, 19, 4719-4737	4.4	29
3	Earth system models129-159		4
2	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century		5
1	Coupling the U.K. Earth System Model to dynamic models of the Greenland and Antarctic ice sheets. *Journal of Advances in Modeling Earth Systems*,e2021MS002520	7.1	3