Robin S Smith

List of Publications by Year
in descending order

39 papers	2,612 citations	279487 23 h-index	315357 38 g-index
52 all docs	52 docs citations	52 times ranked	3754 citing authors

#	Article	IF	Citations
1	UKESM1: Description and Evaluation of the U.K. Earth System Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 4513-4558.	1.3	448
2	The Holocene temperature conundrum. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3501-5.	3.3	344
3	Projected land ice contributions to twenty-first-century sea level rise. Nature, 2021, 593, 74-82.	13.7	200
4	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. Cryosphere, 2020, 14, 3033-3070.	1.5	198
5	Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity. Climate of the Past, 2013, 9, 1111-1140.	1.3	157
6	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. Cryosphere, 2020, 14, 3071-3096.	1.5	144
7	Irreducible uncertainty in near-term climate projections. Climate Dynamics, 2016, 46, 3807-3819.	1.7	134
8	A description of the FAMOUS (version XDBUA) climate model and control run. Geoscientific Model Development, 2008, 1, 53-68.	1.3	93
9	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. Cryosphere, 2020, 14, 2331-2368.	1.5	72
10	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, .	1.5	70
11	Earth System Model Evaluation Tool (ESMValTool) v2.0 â€“ 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.	1.3	69
12	Global glacier volume projections under high-end climate change scenarios. Cryosphere, 2019, 13, 325-350.	1.5	66
13	The last glacial cycle: transient simulations with an AOGCM. Climate Dynamics, 2012, 38, 1545-1559.	1.7	62
14	Ocean Heat Uptake Processes: A Model Intercomparison. Journal of Climate, 2015, 28, 887-908.	1.2	55
15	Terrestrial biosphere changes over the last 120â€¯kyr. Climate of the Past, 2016, 12, 51-73.	1.3	43
16	The FAMOUS climate model (versions XFXWB and XFHCC): description update to version XDBUA. Geoscientific Model Development, 2012, 5, 269-276.	1.3	40
17	Where were the monsoon regions and arid zones in Asia prior to the Tibetan Plateau uplift?. National Science Review, 2015, 2, 403-416.	4.6	40
18	The drivers of projected North Atlantic sea level change. Climate Dynamics, 2014, 43, 1531-1544.	1.7	39

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19	Mountain ranges favour vigorous Atlantic meridional overturning. Geophysical Research Letters, 2012, 39, .	1.5	36
20	Global Climate and Ocean Circulation on an Aquaplanet Oceanâ€“Atmosphere General Circulation Model. Journal of Climate, 2006, 19, 4719-4737.	1.2	32
21	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.	1.5	28
22	Continental drift and plateau uplift control origination and evolution of Asian and Australian monsoons. Scientific Reports, 2017, 7, 40344.	1.6	26
23	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.	2.3	26
24	Large and irreversible future decline of the Greenland ice sheet. Cryosphere, 2020, 14, 4299-4322.	1.5	22
25	Improved Climate Simulations through a Stochastic Parameterization of Ocean Eddies. Journal of Climate, 2016, 29, 8763-8781.	1.2	21
26	Observable, low-order dynamical controls on thresholds of the Atlantic meridional overturning circulation. Climate Dynamics, 2019, 53, 6815-6834.	1.7	21
27	Optimising the FAMOUS climate model: inclusion of global carbon cycling. Geoscientific Model Development, 2013, 6, 141-160.	1.3	19
28	Coupling the U.K. Earth System Model to Dynamic Models of the Greenland and Antarctic Ice Sheets. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002520.	1.3	19
29	Simulation of the mid-Pliocene Warm Period using HadGEM3: experimental design and results from modelâ€“model and modelâ€“data comparison. Climate of the Past, 2021, 17, 2139-2163.	1.3	15
30	Response of the Atlantic meridional overturning circulation to a reversal of greenhouse gas increases. Climate Dynamics, 2014, 42, 3323-3336.	1.7	12
31	The Physical Climate at Global Warming Thresholds as Seen in the U.K. Earth System Model. Journal of Climate, 2022, 35, 29-48.	1.2	12
32	Global warming and ocean stratification: A potential result of large extraterrestrial impacts. Geophysical Research Letters, 2017, 44, 3841-3848.	1.5	8
33	The impact of salinity perturbations on the future uptake of heat by the Atlantic Ocean. Geophysical Research Letters, 2014, 41, 9072-9079.	1.5	7
34	Earth system models. , 2012, , 129-159.		5
35	Ocean circulation drifts in multi-millennial climate simulations: the role of salinity corrections and climate feedbacks. Climate Dynamics, 2019, 52, 1761-1781.	1.7	5
36	Factors influencing anthropogenic carbon dioxide uptake in the North Atlantic in models of the ocean carbon cycle. Climate Dynamics, 2008, 31, 599-613.	1.7	4

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37	Earth system music: music generated from the United Kingdom Earth System Model (UKESM1). Geoscience Communication, 2020, 3, 263-278.	0.5	4
38	FORTE 2.0: a fast, parallel and flexible coupled climate model. Geoscientific Model Development, 2021, 14, 275-293.	1.3	3
39	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.	1.3	3