Stephen L Cornford

List of Publications by Year
in descending order

27	1,214	394286	526166
papers	citations	19 h-index	27 g-index

62	62	62	1182
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive mesh, finite volume modeling of marine ice sheets. Journal of Computational Physics, 2013, 232, 529-549.	1.9	199
2	Century-scale simulations of the response of the West Antarctic Ice Sheet to a warming climate. Cryosphere, 2015, 9, 1579-1600.	1.5	125
3	Experimental design for three interrelated marine ice sheet and ocean model intercomparison projects: MISMIP v. 3 (MISMIP +), ISOMIP v. 2 (ISOMIP +) and MISOMIP v. 1 (MISOMIP1). Geoscientific Model Development, 2016, 9, 2471-2497.	1.3	106
4	Calibrated prediction of Pine Island Glacier retreat during the 21st and 22nd centuries with a coupled flowline model. Earth and Planetary Science Letters, 2012, 333-334, 191-199.	1.8	77
5	Uneven onset and pace of iceâ€dynamical imbalance in the Amundsen Sea Embayment, West Antarctica. Geophysical Research Letters, 2017, 44, 910-918.	1.5	74
6	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. Cryosphere, 2019, 13, 1441-1471.	1.5	69
7	Contrasting the modelled sensitivity of the Amundsen Sea Embayment ice streams. Journal of Glaciology, 2016, 62, 552-562.	1.1	54
8	Diverse landscapes beneath Pine Island Glacier influence ice flow. Nature Communications, 2017, 8, 1618.	5.8	53
9	Results of the third Marine Ice Sheet Model Intercomparison Project (MISMIP+). Cryosphere, 2020, 14, 2283-2301.	1.5	53
10	Increased ice flow in Western Palmer Land linked to ocean melting. Geophysical Research Letters, 2017, 44, 4159-4167.	1.5	47
11	Rapid fragmentation of Thwaites Eastern Ice Shelf. Cryosphere, 2022, 16, 2545-2564.	1.5	36
12	Resolution requirements for grounding-line modelling: sensitivity to basal drag and ice-shelf buttressing. Annals of Glaciology, 2012, 53, 97-105.	2.8	35
13	Sensitivity of the Weddell Sea sector ice streams to sub-shelf melting and surface accumulation. Cryosphere, 2014, 8, 2119-2134.	1.5	33
14	Modelling the response of the Lambert Glacierâ€“Amery Ice Shelf system, East Antarctica, to uncertain climate forcing over the 21st and 22nd centuries. Cryosphere, 2014, 8, 1057-1068.	1.5	27
15	Millennialâ€Scale Vulnerability of the Antarctic Ice Sheet to Regional Ice Shelf Collapse. Geophysical Research Letters, 2019, 46, 1467-1475.	1.5	26
16	Ice shelf fracture parameterization in an ice sheet model. Cryosphere, 2017, 11, 2543-2554.	1.5	25
17	Assessing Uncertainty in the Dynamical Ice Response to Ocean Warming in the Amundsen Sea Embayment, West Antarctica. Geophysical Research Letters, 2019, 46, 11253-11260.	1.5	22
18	Generating synthetic fjord bathymetry for coastal Greenland. Cryosphere, 2017, 11, 363-380.	1.5	21

#	Article	IF	Citations
19	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.	1.4	20
20	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
21	Initialization of an ice-sheet model for present-day Greenland. Annals of Glaciology, 2015, 56, 129-140.	2.8	18
22	Dynamic response of Antarctic Peninsula Ice Sheet to potential collapse of Larsen C and George VI ice shelves. Cryosphere, 2018, 12, 2307-2326.	1.5	17
23	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.	1.0	12
24	Iceâ€Marginal Proglacial Lakes Across Greenland: Present Status and a Possible Future. Geophysical Research Letters, 2022, 49, .	1.5	9
25	Buoyant forces promote tidewater glacier iceberg calving through large basal stress concentrations. Cryosphere, 2019, 13, 1877-1887.	1.5	5
26	Quantifying the Impact of Bedrock Topography Uncertainty in Pine Island Glacier Projections for This Century. Geophysical Research Letters, 2022, 49, .	1.5	4
27	Composite matrix construction for structured grid adaptive mesh refinement. Computer Physics Communications, 2019, 244, 35-39.	3.0	2