

Stephen L Cornford

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,214
citations

394421
19
h-index

526287
27
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62
all docs

62
docs citations

62
times ranked

1182
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive mesh, finite volume modeling of marine ice sheets. <i>Journal of Computational Physics</i> , 2013, 232, 529-549.	3.8	199
2	Century-scale simulations of the response of the West Antarctic Ice Sheet to a warming climate. <i>Cryosphere</i> , 2015, 9, 1579-1600.	3.9	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). <i>Geoscientific Model Development</i> , 2016, 9, 2471-2497.	3.6	106
4	Calibrated prediction of Pine Island Glacier retreat during the 21st and 22nd centuries with a coupled flowline model. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 191-199.	4.4	77
5	Uneven onset and pace of iceâ€œdynamical imbalance in the Amundsen Sea Embayment, West Antarctica. <i>Geophysical Research Letters</i> , 2017, 44, 910-918.	4.0	74
6	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. <i>Cryosphere</i> , 2019, 13, 1441-1471.	3.9	69
7	Contrasting the modelled sensitivity of the Amundsen Sea Embayment ice streams. <i>Journal of Glaciology</i> , 2016, 62, 552-562.	2.2	54
8	Diverse landscapes beneath Pine Island Glacier influence ice flow. <i>Nature Communications</i> , 2017, 8, 1618.	12.8	53
9	Results of the third Marine Ice Sheet Model Intercomparison Project (MISMIP+). <i>Cryosphere</i> , 2020, 14, 2283-2301.	3.9	53
10	Increased ice flow in Western Palmer Land linked to ocean melting. <i>Geophysical Research Letters</i> , 2017, 44, 4159-4167.	4.0	47
11	Rapid fragmentation of Thwaites Eastern Ice Shelf. <i>Cryosphere</i> , 2022, 16, 2545-2564.	3.9	36
12	Resolution requirements for grounding-line modelling: sensitivity to basal drag and ice-shelf buttressing. <i>Annals of Glaciology</i> , 2012, 53, 97-105.	1.4	35
13	Sensitivity of the Weddell Sea sector ice streams to sub-shelf melting and surface accumulation. <i>Cryosphere</i> , 2014, 8, 2119-2134.	3.9	33
14	Modelling the response of the Lambert Glacierâ€œAmery Ice Shelf system, East Antarctica, to uncertain climate forcing over the 21st and 22nd centuries. <i>Cryosphere</i> , 2014, 8, 1057-1068.	3.9	27
15	Millennialâ€œScale Vulnerability of the Antarctic Ice Sheet to Regional Ice Shelf Collapse. <i>Geophysical Research Letters</i> , 2019, 46, 1467-1475.	4.0	26
16	Ice shelf fracture parameterization in an ice sheet model. <i>Cryosphere</i> , 2017, 11, 2543-2554.	3.9	25
17	Assessing Uncertainty in the Dynamical Ice Response to Ocean Warming in the Amundsen Sea Embayment, West Antarctica. <i>Geophysical Research Letters</i> , 2019, 46, 11253-11260.	4.0	22
18	Generating synthetic fjord bathymetry for coastal Greenland. <i>Cryosphere</i> , 2017, 11, 363-380.	3.9	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. <i>Quaternary Science Reviews</i> , 2019, 223, 105915.	3.0	20
20	Coupling the U.K. Earth System Model to Dynamic Models of the Greenland and Antarctic Ice Sheets. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002520.	3.8	19
21	Initialization of an ice-sheet model for present-day Greenland. <i>Annals of Glaciology</i> , 2015, 56, 129-140.	1.4	18
22	Dynamic response of Antarctic Peninsula Ice Sheet to potential collapse of Larsen C and George VI ice shelves. <i>Cryosphere</i> , 2018, 12, 2307-2326.	3.9	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. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005755.	2.8	12
24	Iceâ€Marginal Proglacial Lakes Across Greenland: Present Status and a Possible Future. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
25	Buoyant forces promote tidewater glacier iceberg calving through large basal stress concentrations. <i>Cryosphere</i> , 2019, 13, 1877-1887.	3.9	5
26	Quantifying the Impact of Bedrock Topography Uncertainty in Pine Island Glacier Projections for This Century. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
27	Composite matrix construction for structured grid adaptive mesh refinement. <i>Computer Physics Communications</i> , 2019, 244, 35-39.	7.5	2