

William H Lipscomb

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

8,231
citations

94433

37
h-index

102487

66
g-index

94
all docs

94
docs citations

94
times ranked

8274
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of the stability and performance of depth-integrated ice-dynamics solvers. Cryosphere, 2022, 16, 689-709.	3.9	8
2	MPAS-Seaice (v1.0.0): sea-ice dynamics on unstructured Voronoi meshes. Geoscientific Model Development, 2022, 15, 3721-3751.	3.6	6
3	ISMIP6-based projections of ocean-forced Antarctic Ice Sheet evolution using the Community Ice Sheet Model. Cryosphere, 2021, 15, 633-661.	3.9	16
4	Projected land ice contributions to twenty-first-century sea level rise. Nature, 2021, 593, 74-82.	27.8	200
5	Description and Demonstration of the Coupled Community Earth System Model v2 "Community Ice Sheet Model v2 (CESM2-CISM2). Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002356.	3.8	13
6	Statistical emulation of a perturbed basal melt ensemble of an ice sheet model to better quantify Antarctic sea level rise uncertainties. Cryosphere, 2021, 15, 2683-2699.	3.9	6
7	Marine ice sheet experiments with the Community Ice Sheet Model. Cryosphere, 2021, 15, 3229-3253.	3.9	7
8	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.	4.0	28
9	Retreat and Regrowth of the Greenland Ice Sheet During the Last Interglacial as Simulated by the CESM2-CISM2 Coupled Climate-Ice Sheet Model. Paleoclimatology and Paleoclimatology, 2021, 36, .	2.9	7
10	An Efficient Ice Sheet/Earth System Model Spin-up Procedure for CESM2-CISM2: Description, Evaluation, and Broader Applicability. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001984.	3.8	10
11	Antarctic ice sheet response to sudden and sustained ice-shelf collapse (ABUMIP). Journal of Glaciology, 2020, 66, 891-904.	2.2	70
12	Investigating controls on sea ice algal production using E3SMv1.1-BGC. Annals of Glaciology, 2020, 61, 51-72.	1.4	16
13	Accelerated Greenland Ice Sheet Mass Loss Under High Greenhouse Gas Forcing as Simulated by the Coupled CESM2.1-CISM2.1. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002031.	3.8	12
14	CO ₂ Increase Experiments Using the CESM: Relationship to Climate Sensitivity and Comparison of CESM1 to CESM2. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002120.	3.8	25
15	The Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001916.	3.8	935
16	Projecting Antarctica's contribution to future sea level rise from basal ice shelf melt using linear response functions of 16 ice sheet models (LARMIP-2). Earth System Dynamics, 2020, 11, 35-76.	7.1	92
17	Greenland Ice Sheet Contribution to 21st Century Sea Level Rise as Simulated by the Coupled CESM2.1-CISM2.1. Geophysical Research Letters, 2020, 47, e2019GL086836.	4.0	40
18	Present-Day Greenland Ice Sheet Climate and Surface Mass Balance in CESM2. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005318.	2.8	24

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19	Remapping of Greenland ice sheet surface mass balance anomalies for large ensemble sea-level change projections. Cryosphere, 2020, 14, 1747-1762.	3.9	11
20	Results of the third Marine Ice Sheet Model Intercomparison Project (MISMIP+). Cryosphere, 2020, 14, 2283-2301.	3.9	53
21	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. Cryosphere, 2020, 14, 2331-2368.	3.9	72
22	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. Cryosphere, 2020, 14, 3033-3070.	3.9	198
23	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. Cryosphere, 2020, 14, 3071-3096.	3.9	144
24	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. Journal of Advances in Modeling Earth Systems, 2019, 11, 4245-4287.	3.8	692
25	A Variational Method for Sea Ice Ridging in Earth System Models. Journal of Advances in Modeling Earth Systems, 2019, 11, 771-805.	3.8	11
26	Description and evaluation of the Community Ice Sheet Model (CISM) v2.1. Geoscientific Model Development, 2019, 12, 387-424.	3.6	68
27	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. Cryosphere, 2019, 13, 1441-1471.	3.9	69
28	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2089-2129.	3.8	404
29	Surface mass balance downscaling through elevation classes in an Earth system model: application to the Greenland ice sheet. Cryosphere, 2019, 13, 3193-3208.	3.9	18
30	Rising Oceans Guaranteed: Arctic Land Ice Loss and Sea Level Rise. Current Climate Change Reports, 2018, 4, 211-222.	8.6	29
31	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. Cryosphere, 2018, 12, 1433-1460.	3.9	89
32	MPAS-Albany Land Ice (MALI): a variable-resolution ice sheet model for Earth system modeling using Voronoi grids. Geoscientific Model Development, 2018, 11, 3747-3780.	3.6	54
33	LIVVkit: An extensible, python-based, land ice verification and validation toolkit for ice sheet models. Journal of Advances in Modeling Earth Systems, 2017, 9, 854-869.	3.8	7
34	Improving the Representation of Polar Snow and Firn in the Community Earth System Model. Journal of Advances in Modeling Earth Systems, 2017, 9, 2583-2600.	3.8	78
35	The PMIP4 contribution to CMIP6 – Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. Geoscientific Model Development, 2017, 10, 3979-4003.	3.6	171
36	An ice sheet model validation framework for the Greenland ice sheet. Geoscientific Model Development, 2017, 10, 255-270.	3.6	18

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37	Ice Sheet Model Intercomparison Project (ISMIP6) contribution to CMIP6. Geoscientific Model Development, 2016, 9, 4521-4545.	3.6	199
38	The pattern of anthropogenic signal emergence in Greenland Ice Sheet surface mass balance. Geophysical Research Letters, 2014, 41, 6002-6008.	4.0	12
39	A technique for generating consistent ice sheet initial conditions for coupled ice sheet/climate models. Geoscientific Model Development, 2014, 7, 1183-1195.	3.6	13
40	Greenland Surface Mass Balance as Simulated by the Community Earth System Model. Part II: Twenty-First-Century Changes. Journal of Climate, 2014, 27, 215-226.	3.2	41
41	Parameterization of basal friction near grounding lines in a one-dimensional ice sheet model. Cryosphere, 2014, 8, 1239-1259.	3.9	44
42	Future climate warming increases Greenland ice sheet surface mass balance variability. Geophysical Research Letters, 2014, 41, 470-475.	4.0	20
43	The Community Earth System Model: A Framework for Collaborative Research. Bulletin of the American Meteorological Society, 2013, 94, 1339-1360.	3.3	1,848
44	Insights into spatial sensitivities of ice mass response to environmental change from the SeaRISE ice sheet modeling project I: Antarctica. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1002-1024.	2.8	63
45	Adaptive mesh, finite volume modeling of marine ice sheets. Journal of Computational Physics, 2013, 232, 529-549.	3.8	199
46	Volume and velocity changes at Mittivakkat Gletscher, southeast Greenland. Journal of Glaciology, 2013, 59, 660-670.	2.2	17
47	Global glacier changes: a revised assessment of committed mass losses and sampling uncertainties. Cryosphere, 2013, 7, 1565-1577.	3.9	76
48	Implementation and Initial Evaluation of the Glimmer Community Ice Sheet Model in the Community Earth System Model. Journal of Climate, 2013, 26, 7352-7371.	3.2	89
49	Greenland Surface Mass Balance as Simulated by the Community Earth System Model. Part I: Model Evaluation and 1850–2005 Results. Journal of Climate, 2013, 26, 7793-7812.	3.2	51
50	Insights into spatial sensitivities of ice mass response to environmental change from the SeaRISE ice sheet modeling project II: Greenland. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1025-1044.	2.8	79
51	Ice-sheet model sensitivities to environmental forcing and their use in projecting future sea level (the Tj ETQq1 1 0,784314 rgBJ /Over	2.2	222
52	Late-Twentieth-Century Simulation of Arctic Sea Ice and Ocean Properties in the CCSM4. Journal of Climate, 2012, 25, 1431-1452.	3.2	99
53	Incorporating arbitrary basal topography in the variational formulation of ice-sheet models. Journal of Glaciology, 2011, 57, 461-467.	2.2	7
54	Modeling 5 years of subglacial lake activity in the MacAyeal Ice Stream (Antarctica) catchment through assimilation of ICESat laser altimetry. Journal of Glaciology, 2011, 57, 1098-1112.	2.2	26

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55	Increasing mass loss from Greenland's Mittivakkat Gletscher. Cryosphere, 2011, 5, 341-348.	3.9	44
56	Sea-ice models for climate study: retrospective and new directions. Journal of Glaciology, 2010, 56, 1162-1172.	2.2	78
57	Consistent approximations and boundary conditions for ice-sheet dynamics from a principle of least action. Journal of Glaciology, 2010, 56, 480-496.	2.2	49
58	A Community Ice Sheet Model for Sea Level Prediction: Building a Next-Generation Community Ice Sheet Model; Los Alamos, New Mexico, 18â€“20 August 2008. Eos, 2009, 90, 23.	0.1	27
59	Ridging, strength, and stability in high-resolution sea ice models. Journal of Geophysical Research, 2007, 112, .	3.3	145
60	Sensitivity analysis and parameter tuning scheme for global sea-ice modeling. Ocean Modelling, 2006, 14, 61-80.	2.4	35
61	Influence of the Sea Ice Thickness Distribution on Polar Climate in CCSM3. Journal of Climate, 2006, 19, 2398-2414.	3.2	168
62	An Incremental Remapping Transport Scheme on a Spherical Geodesic Grid. Monthly Weather Review, 2005, 133, 2335-2350.	1.4	53
63	Modeling Sea Ice Transport Using Incremental Remapping. Monthly Weather Review, 2004, 132, 1341-1354.	1.4	124
64	High resolution simulations of Arctic sea ice, 1979â€“1993. Polar Research, 2003, 22, 67-74.	1.6	18
65	Remapping the thickness distribution in sea ice models. Journal of Geophysical Research, 2001, 106, 13989-14000.	3.3	121
66	An energy-conserving thermodynamic model of sea ice. Journal of Geophysical Research, 1999, 104, 15669-15677.	3.3	414
67	The Community Earth System Model: A Framework for Collaborative Research. Bulletin of the American Meteorological Society, 0, , 130204122247009.	3.3	103