

William H Lipscomb

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

8,231
citations

94381

37
h-index

102432

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. <i>Cryosphere</i> , 2022, 16, 689-709.	1.5	8
2	MPAS-Seaice (v1.0.0): sea-ice dynamics on unstructured Voronoi meshes. <i>Geoscientific Model Development</i> , 2022, 15, 3721-3751.	1.3	6
3	ISMIP6-based projections of ocean-forced Antarctic Ice Sheet evolution using the Community Ice Sheet Model. <i>Cryosphere</i> , 2021, 15, 633-661.	1.5	16
4	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021, 593, 74-82.	13.7	200
5	Description and Demonstration of the Coupled Community Earth System Model v2 "Community Ice Sheet Model v2 (CESM2-CISM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002356.	1.3	13
6	Statistical emulation of a perturbed basal melt ensemble of an ice sheet model to better quantify Antarctic sea level rise uncertainties. <i>Cryosphere</i> , 2021, 15, 2683-2699.	1.5	6
7	Marine ice sheet experiments with the Community Ice Sheet Model. <i>Cryosphere</i> , 2021, 15, 3229-3253.	1.5	7
8	Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091741.	1.5	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. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, .	1.3	7
10	An Efficient Ice Sheet/Earth System Model Spin-up Procedure for CESM2-CISM2: Description, Evaluation, and Broader Applicability. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001984.	1.3	10
11	Antarctic ice sheet response to sudden and sustained ice-shelf collapse (ABUMIP). <i>Journal of Glaciology</i> , 2020, 66, 891-904.	1.1	70
12	Investigating controls on sea ice algal production using E3SMv1.1-BGC. <i>Annals of Glaciology</i> , 2020, 61, 51-72.	2.8	16
13	Accelerated Greenland Ice Sheet Mass Loss Under High Greenhouse Gas Forcing as Simulated by the Coupled CESM2.1-CISM2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002031.	1.3	12
14	CO ₂ Increase Experiments Using the CESM: Relationship to Climate Sensitivity and Comparison of CESM1 to CESM2. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002120.	1.3	25
15	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	1.3	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). <i>Earth System Dynamics</i> , 2020, 11, 35-76.	2.7	92
17	Greenland Ice Sheet Contribution to 21st Century Sea Level Rise as Simulated by the Coupled CESM2.1-CISM2.1. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086836.	1.5	40
18	Present-Day Greenland Ice Sheet Climate and Surface Mass Balance in CESM2. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005318.	1.0	24

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19	Remapping of Greenland ice sheet surface mass balance anomalies for large ensemble sea-level change projections. <i>Cryosphere</i> , 2020, 14, 1747-1762.	1.5	11
20	Results of the third Marine Ice Sheet Model Intercomparison Project (MISMIP+). <i>Cryosphere</i> , 2020, 14, 2283-2301.	1.5	53
21	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. <i>Cryosphere</i> , 2020, 14, 2331-2368.	1.5	72
22	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. <i>Cryosphere</i> , 2020, 14, 3033-3070.	1.5	198
23	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. <i>Cryosphere</i> , 2020, 14, 3071-3096.	1.5	144
24	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4245-4287.	1.3	692
25	A Variational Method for Sea Ice Ridging in Earth System Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 771-805.	1.3	11
26	Description and evaluation of the Community Ice Sheet Model (CISM) v2.1. <i>Geoscientific Model Development</i> , 2019, 12, 387-424.	1.3	68
27	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. <i>Cryosphere</i> , 2019, 13, 1441-1471.	1.5	69
28	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2089-2129.	1.3	404
29	Surface mass balance downscaling through elevation classes in an Earth system model: application to the Greenland ice sheet. <i>Cryosphere</i> , 2019, 13, 3193-3208.	1.5	18
30	Rising Oceans Guaranteed: Arctic Land Ice Loss and Sea Level Rise. <i>Current Climate Change Reports</i> , 2018, 4, 211-222.	2.8	29
31	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. <i>Cryosphere</i> , 2018, 12, 1433-1460.	1.5	89
32	MPAS-Albany Land Ice (MALI): a variable-resolution ice sheet model for Earth system modeling using Voronoi grids. <i>Geoscientific Model Development</i> , 2018, 11, 3747-3780.	1.3	54
33	LIVKit: An extensible, python-based, land ice verification and validation toolkit for ice sheet models. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 854-869.	1.3	7
34	Improving the Representation of Polar Snow and Firn in the Community Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2583-2600.	1.3	78
35	The PMIP4 contribution to CMIP6 – Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. <i>Geoscientific Model Development</i> , 2017, 10, 3979-4003.	1.3	171
36	An ice sheet model validation framework for the Greenland ice sheet. <i>Geoscientific Model Development</i> , 2017, 10, 255-270.	1.3	18

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37	Ice Sheet Model Intercomparison Project (ISMIP6) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 4521-4545.	1.3	199
38	The pattern of anthropogenic signal emergence in Greenland Ice Sheet surface mass balance. <i>Geophysical Research Letters</i> , 2014, 41, 6002-6008.	1.5	12
39	A technique for generating consistent ice sheet initial conditions for coupled ice sheet/climate models. <i>Geoscientific Model Development</i> , 2014, 7, 1183-1195.	1.3	13
40	Greenland Surface Mass Balance as Simulated by the Community Earth System Model. Part II: Twenty-First-Century Changes. <i>Journal of Climate</i> , 2014, 27, 215-226.	1.2	41
41	Parameterization of basal friction near grounding lines in a one-dimensional ice sheet model. <i>Cryosphere</i> , 2014, 8, 1239-1259.	1.5	44
42	Future climate warming increases Greenland ice sheet surface mass balance variability. <i>Geophysical Research Letters</i> , 2014, 41, 470-475.	1.5	20
43	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1339-1360.	1.7	1,848
44	Insights into spatial sensitivities of ice mass response to environmental change from the SeaRISE ice sheet modeling project I: Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1002-1024.	1.0	63
45	Adaptive mesh, finite volume modeling of marine ice sheets. <i>Journal of Computational Physics</i> , 2013, 232, 529-549.	1.9	199
46	Volume and velocity changes at Mittivakkat Gletscher, southeast Greenland. <i>Journal of Glaciology</i> , 2013, 59, 660-670.	1.1	17
47	Global glacier changes: a revised assessment of committed mass losses and sampling uncertainties. <i>Cryosphere</i> , 2013, 7, 1565-1577.	1.5	76
48	Implementation and Initial Evaluation of the Glimmer Community Ice Sheet Model in the Community Earth System Model. <i>Journal of Climate</i> , 2013, 26, 7352-7371.	1.2	89
49	Greenland Surface Mass Balance as Simulated by the Community Earth System Model. Part I: Model Evaluation and 1850–2005 Results. <i>Journal of Climate</i> , 2013, 26, 7793-7812.	1.2	51
50	Insights into spatial sensitivities of ice mass response to environmental change from the SeaRISE ice sheet modeling project II: Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1025-1044.	1.0	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	1.1	222
52	Late-Twentieth-Century Simulation of Arctic Sea Ice and Ocean Properties in the CCSM4. <i>Journal of Climate</i> , 2012, 25, 1431-1452.	1.2	99
53	Incorporating arbitrary basal topography in the variational formulation of ice-sheet models. <i>Journal of Glaciology</i> , 2011, 57, 461-467.	1.1	7
54	Modeling 5 years of subglacial lake activity in the MacAyeal Ice Stream (Antarctica) catchment through assimilation of ICESat laser altimetry. <i>Journal of Glaciology</i> , 2011, 57, 1098-1112.	1.1	26

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55	Increasing mass loss from Greenland's Mittivakkat Gletscher. <i>Cryosphere</i> , 2011, 5, 341-348.	1.5	44
56	Sea-ice models for climate study: retrospective and new directions. <i>Journal of Glaciology</i> , 2010, 56, 1162-1172.	1.1	78
57	Consistent approximations and boundary conditions for ice-sheet dynamics from a principle of least action. <i>Journal of Glaciology</i> , 2010, 56, 480-496.	1.1	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. <i>Eos</i> , 2009, 90, 23.	0.1	27
59	Ridging, strength, and stability in high-resolution sea ice models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	145
60	Sensitivity analysis and parameter tuning scheme for global sea-ice modeling. <i>Ocean Modelling</i> , 2006, 14, 61-80.	1.0	35
61	Influence of the Sea Ice Thickness Distribution on Polar Climate in CCSM3. <i>Journal of Climate</i> , 2006, 19, 2398-2414.	1.2	168
62	An Incremental Remapping Transport Scheme on a Spherical Geodesic Grid. <i>Monthly Weather Review</i> , 2005, 133, 2335-2350.	0.5	53
63	Modeling Sea Ice Transport Using Incremental Remapping. <i>Monthly Weather Review</i> , 2004, 132, 1341-1354.	0.5	124
64	High resolution simulations of Arctic sea ice, 1979â€“1993. <i>Polar Research</i> , 2003, 22, 67-74.	1.6	18
65	Remapping the thickness distribution in sea ice models. <i>Journal of Geophysical Research</i> , 2001, 106, 13989-14000.	3.3	121
66	An energy-conserving thermodynamic model of sea ice. <i>Journal of Geophysical Research</i> , 1999, 104, 15669-15677.	3.3	414
67	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 0, , 130204122247009.	1.7	103