

Heiko Goelzer

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,051
citations

236912

25
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223791

46
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97
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97
docs citations

97
times ranked

3080
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlations Between Sea-Level Components Are Driven by Regional Climate Change. <i>Earth's Future</i> , 2021, 9, e2020EF001825.	6.3	7
2	Snowball Earth Bifurcations in a Fully-Implicit Earth System Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, 2130017.	1.7	0
3	The Utrecht Finite Volume Ice-Sheet Model: UFEMISM (version 1.0). <i>Geoscientific Model Development</i> , 2021, 14, 2443-2470.	3.6	5
4	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021, 593, 74-82.	27.8	200
5	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.	4.0	28
6	Mass balance of the ice sheets and glaciers – Progress since AR5 and challenges. <i>Earth-Science Reviews</i> , 2020, 201, 102976.	9.1	44
7	Antarctic ice sheet response to sudden and sustained ice-shelf collapse (ABUMIP). <i>Journal of Glaciology</i> , 2020, 66, 891-904.	2.2	70
8	Brief communication: On calculating the sea-level contribution in marine ice-sheet models. <i>Cryosphere</i> , 2020, 14, 833-840.	3.9	20
9	CMIP5 model selection for ISMIP6 ice sheet model forcing: Greenland and Antarctica. <i>Cryosphere</i> , 2020, 14, 855-879.	3.9	58
10	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.	7.1	92
11	Twenty-first century ocean forcing of the Greenland ice sheet for modelling of sea level contribution. <i>Cryosphere</i> , 2020, 14, 985-1008.	3.9	51
12	Semi-equilibrated global sea-level change projections for the next 10,000 years. <i>Earth System Dynamics</i> , 2020, 11, 953-976.	7.1	16
13	Description and validation of the ice-sheet model Yelmo (version 1.0). <i>Geoscientific Model Development</i> , 2020, 13, 2805-2823.	3.6	12
14	Remapping of Greenland ice sheet surface mass balance anomalies for large ensemble sea-level change projections. <i>Cryosphere</i> , 2020, 14, 1747-1762.	3.9	11
15	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. <i>Cryosphere</i> , 2020, 14, 2331-2368.	3.9	72
16	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. <i>Cryosphere</i> , 2020, 14, 3033-3070.	3.9	198
17	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. <i>Cryosphere</i> , 2020, 14, 3071-3096.	3.9	144
18	Sensitivity of Greenland ice sheet projections to spatial resolution in higher-order simulations: the Alfred Wegener Institute (AWI) contribution to ISMIP6 Greenland using the Ice-sheet and Sea-level System Model (ISSM). <i>Cryosphere</i> , 2020, 14, 3309-3327.	3.9	10

#	ARTICLE	IF	CITATIONS
19	GrSMBMIP: intercomparison of the modelled 1980â€“2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 3935-3958.	3.9	111
20	Estimating Greenland tidewater glacier retreat driven by submarine melting. <i>Cryosphere</i> , 2019, 13, 2489-2509.	3.9	60
21	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. <i>Cryosphere</i> , 2019, 13, 1441-1471.	3.9	69
22	Rising Oceans Guaranteed: Arctic Land Ice Loss and Sea Level Rise. <i>Current Climate Change Reports</i> , 2018, 4, 211-222.	8.6	29
23	The Greenland and Antarctic ice sheets under 1.5 Å°C global warming. <i>Nature Climate Change</i> , 2018, 8, 1053-1061.	18.8	135
24	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. <i>Cryosphere</i> , 2018, 12, 1433-1460.	3.9	89
25	Recent Progress in Greenland Ice Sheet Modelling. <i>Current Climate Change Reports</i> , 2017, 3, 291-302.	8.6	40
26	The PMIP4 contribution to CMIP6 â€“ Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. <i>Geoscientific Model Development</i> , 2017, 10, 3979-4003.	3.6	171
27	Last Interglacial climate and sea-level evolution from a coupled ice sheetâ€“climate model. <i>Climate of the Past</i> , 2016, 12, 2195-2213.	3.4	47
28	Impact of ice sheet meltwater fluxes on the climate evolution at the onset of the Last Interglacial. <i>Climate of the Past</i> , 2016, 12, 1721-1737.	3.4	14
29	Ice Sheet Model Intercomparison Project (ISMIP6) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 4521-4545.	3.6	199
30	Ice-dynamic projections of the Greenland ice sheet in response to atmospheric and oceanic warming. <i>Cryosphere</i> , 2015, 9, 1039-1062.	3.9	88
31	Simulating the Antarctic ice sheet in the late-Pliocene warm period: PLISMIP-ANT, an ice-sheet model intercomparison project. <i>Cryosphere</i> , 2015, 9, 881-903.	3.9	61
32	Factors controlling the last interglacial climate as simulated by LOVECLIM1.3. <i>Climate of the Past</i> , 2014, 10, 1541-1565.	3.4	21
33	Effect of uncertainty in surface mass balanceâ€“elevation feedback on projections of the future sea level contribution of the Greenland ice sheet. <i>Cryosphere</i> , 2014, 8, 195-208.	3.9	67
34	Probabilistic parameterisation of the surface mass balanceâ€“elevation feedback in regional climate model simulations of the Greenland ice sheet. <i>Cryosphere</i> , 2014, 8, 181-194.	3.9	26
35	The importance of insolation changes for paleo ice sheet modeling. <i>Cryosphere</i> , 2014, 8, 1419-1428.	3.9	18
36	Effect of higher-order stress gradients on the centennial mass evolution of the Greenland ice sheet. <i>Cryosphere</i> , 2013, 7, 183-199.	3.9	22

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37	Enhanced basal lubrication and the contribution of the Greenland ice sheet to future sea-level rise. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14156-14161.	7.1	85
38	Sensitivity of Greenland Ice Sheet Projections to Model Formulations. Journal of Glaciology, 2013, 59, 733-749.	2.2	105
39	A dynamic continental runoff routing model applied to the last Northern Hemisphere deglaciation. Geoscientific Model Development, 2012, 5, 599-609.	3.6	7
40	Millennial total sea-level commitments projected with the Earth system model of intermediate complexity LOVECLIM. Environmental Research Letters, 2012, 7, 045401.	5.2	27
41	Evaluating climate model performance with various parameter sets using observations over the recent past. Climate of the Past, 2011, 7, 511-526.	3.4	14
42	Response of the Greenland and Antarctic Ice Sheets to Multi-Millennial Greenhouse Warming in the Earth System Model of Intermediate Complexity LOVECLIM. Surveys in Geophysics, 2011, 32, 397-416.	4.6	93
43	Impact of Greenland and Antarctic ice sheet interactions on climate sensitivity. Climate Dynamics, 2011, 37, 1005-1018.	3.8	34
44	Improved convergence and stability properties in a three-dimensional higher-order ice sheet model. Geoscientific Model Development, 2011, 4, 1133-1149.	3.6	20
45	Description of the Earth system model of intermediate complexity LOVECLIM version 1.2. Geoscientific Model Development, 2010, 3, 603-633.	3.6	279
46	Two-way coupling of an ENSO model to the global climate model CLIMBER-3. Ocean Modelling, 2009, 29, 94-101.	2.4	1
47	Tropical versus high latitude freshwater influence on the Atlantic circulation. Climate Dynamics, 2006, 27, 715-725.	3.8	12