Martin RÃ¼ckamp

List of Publications by Year
in descending order

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Version: 2024-02-01

26 papers	1,503 citations	471509 17 h-index	552781 26 g-index
49 all docs	49 docs citations	49 times ranked	1501 citing authors

#	Article	IF	Citations
1	Benchmark experiments for higher-order and full-Stokes ice sheet models (ISMIPâ€“HOM). Cryosphere, 2008, 2, 95-108.	3.9	221
2	Projected land ice contributions to twenty-first-century sea level rise. Nature, 2021, 593, 74-82.	27.8	200
3	Grounding-line migration in plan-view marine ice-sheet models: results of the ice2sea MISMIP3d intercomparison. Journal of Glaciology, 2013, 59, 410-422.	2.2	179
4	Observed glacial changes on the King George Island ice cap, Antarctica, in the last decade. Global and Planetary Change, 2011, 79, 99-109.	3.5	162
5	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
6	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. Cryosphere, 2018, 12, 1433-1460.	3.9	89
7	Results of the third Marine Ice Sheet Model Intercomparison Project (MISMIP+). Cryosphere, 2020, 14, 2283-2301.	3.9	53
8	Modelling calving front dynamics using a level-set method: application to Jakobshavn IsbrÃ¦, West Greenland. Cryosphere, 2016, 10, 497-510.	3.9	51
9	Geometry and thermal regime of the King George Island ice cap, Antarctica, from GPR and GPS. Annals of Glaciology, 2010, 51, 103-109.	1.4	50
10	The mechanisms behind Jakobshavn IsbrÃ¦'s acceleration and mass loss: A 3â€Ð thermomechanical model study. Geophysical Research Letters, 2017, 44, 6252-6260.	4.0	49
11	Simulation of the future sea level contribution of Greenland with a new glacial system model. Cryosphere, 2018, 12, 3097-3121.	3.9	39
12	Dynamics of the ice cap on King George Island, Antarctica: field measurements and numerical simulations. Annals of Glaciology, 2010, 51, 80-90.	1.4	38
13	Comparative simulations of the evolution of the Greenland ice sheet under simplified Paris Agreement scenarios with the models SICOPOLIS and ISSM. Polar Science, 2019, 21, 14-25.	1.2	29
14	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
15	Calving Induced Speedup of Petermann Glacier. Journal of Geophysical Research F: Earth Surface, 2019, 124, 216-228.	2.8	27
16	Enthalpy benchmark experiments for numerical ice sheet models. Cryosphere, 2015, 9, 217-228.	3.9	25
17	King George Island ice cap geometry updated with airborne GPR measurements. Earth System Science Data, 2012, 4, 23-30.	9.9	20
18	A confinedâ€“unconfined aquifer model for subglacial hydrology and its application to the Northeast Greenland Ice Stream. Cryosphere, 2018, 12, 3931-3947.	3.9	17

#	Article	IF	Citations
19	The effect of overshooting 1.5â€‰Â°C global warming on the mass loss of the Greenland ice sheet. Earth System Dynamics, 2018, 9, 1169-1189.	7.1	14
20	Elastic deformation plays a non-negligible role in Greenlandâ€™s outlet glacier flow. Communications Earth & Environment, 2021, 2, .	6.8	14
21	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). Cryosphere, 2020, 14, 3309-3327.	3.9	10
22	Thermal structure and basal sliding parametrisation at Pine Island Glacier â€“ a 3-D full-Stokes model study. Cryosphere, 2015, 9, 675-690.	3.9	7
23	Extended enthalpy formulations in the Ice-sheet and Sea-level System Model (ISSM) version 4.17: discontinuous conductivity and anisotropic streamline upwind Petrovâ€“Galerkin (SUPG) method. Geoscientific Model Development, 2020, 13, 4491-4501.	3.6	4
24	Discussion of Different Model Approaches for the Flow Behavior of Ice. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 313-314.	0.2	3
25	Comparison of ice dynamics using full-Stokes and Blatterâ€“Pattyn approximation: application to the Northeast Greenland Ice Stream. Cryosphere, 2022, 16, 1675-1696.	3.9	3
26	A scalability study of the Ice-sheet and Sea-level System Model (ISSM, version 4.18). Geoscientific Model Development, 2022, 15, 3753-3771.	3.6	3