

# 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	Comparison of ice dynamics using full-Stokes and Blatterâ€™s Pattyn approximation: application to the Northeast Greenland Ice Stream. <i>Cryosphere</i> , 2022, 16, 1675-1696.	3.9	3
2	A scalability study of the Ice-sheet and Sea-level System Model (ISSM, version 4.18). <i>Geoscientific Model Development</i> , 2022, 15, 3753-3771.	3.6	3
3	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021, 593, 74-82.	27.8	200
4	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
5	Elastic deformation plays a non-negligible role in Greenlandâ€™s outlet glacier flow. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	14
6	Results of the third Marine Ice Sheet Model Intercomparison Project (MISMIP+). <i>Cryosphere</i> , 2020, 14, 2283-2301.	3.9	53
7	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
8	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
9	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. <i>Geoscientific Model Development</i> , 2020, 13, 4491-4501.	3.6	4
10	Comparative simulations of the evolution of the Greenland ice sheet under simplified Paris Agreement scenarios with the models SICOPOLIS and ISSM. <i>Polar Science</i> , 2019, 21, 14-25.	1.2	29
11	Calving Induced Speedup of Petermann Glacier. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 216-228.	2.8	27
12	A confinedâ€™unconfined aquifer model for subglacial hydrology and its application to the Northeast Greenland Ice Stream. <i>Cryosphere</i> , 2018, 12, 3931-3947.	3.9	17
13	The effect of overshooting 1.5â€™ global warming on the mass loss of the Greenland ice sheet. <i>Earth System Dynamics</i> , 2018, 9, 1169-1189.	7.1	14
14	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
15	Simulation of the future sea level contribution of Greenland with a new glacial system model. <i>Cryosphere</i> , 2018, 12, 3097-3121.	3.9	39
16	The mechanisms behind Jakobshavn Isbrâ€™s acceleration and mass loss: A 3â€™ thermomechanical model study. <i>Geophysical Research Letters</i> , 2017, 44, 6252-6260.	4.0	49
17	Modelling calving front dynamics using a level-set method: application to Jakobshavn Isbrâ€™, West Greenland. <i>Cryosphere</i> , 2016, 10, 497-510.	3.9	51
18	Discussion of Different Model Approaches for the Flow Behavior of Ice. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016, 16, 313-314.	0.2	3

#	ARTICLE	IF	CITATIONS
19	Thermal structure and basal sliding parametrisation at Pine Island Glacier – a 3-D full-Stokes model study. <i>Cryosphere</i> , 2015, 9, 675-690.	3.9	7
20	Enthalpy benchmark experiments for numerical ice sheet models. <i>Cryosphere</i> , 2015, 9, 217-228.	3.9	25
21	Grounding-line migration in plan-view marine ice-sheet models: results of the ice2sea MISIP3d intercomparison. <i>Journal of Glaciology</i> , 2013, 59, 410-422.	2.2	179
22	King George Island ice cap geometry updated with airborne GPR measurements. <i>Earth System Science Data</i> , 2012, 4, 23-30.	9.9	20
23	Observed glacial changes on the King George Island ice cap, Antarctica, in the last decade. <i>Global and Planetary Change</i> , 2011, 79, 99-109.	3.5	162
24	Geometry and thermal regime of the King George Island ice cap, Antarctica, from GPR and GPS. <i>Annals of Glaciology</i> , 2010, 51, 103-109.	1.4	50
25	Dynamics of the ice cap on King George Island, Antarctica: field measurements and numerical simulations. <i>Annals of Glaciology</i> , 2010, 51, 80-90.	1.4	38
26	Benchmark experiments for higher-order and full-Stokes ice sheet models (ISMIP-HOM). <i>Cryosphere</i> , 2008, 2, 95-108.	3.9	221