Ruth H Mottram

List of Publications by Year
in descending order

31 papers	2,155 citations	331670 21 h-index	454955 30 g-index
54 all docs	54 docs citations	54 times ranked	2500 citing authors

#	Article	IF	Citations
1	Uncertainties in projected surface mass balance over the polar ice sheets from dynamically downscaled EC-Earth models. Cryosphere, 2022, 16, 17-33.	3.9	2
2	Brief communication: Impact of common ice mask in surface mass balance estimates over the Antarctic ice sheet. Cryosphere, 2022, 16, 711-718.	3.9	9
3	Uncertainty in East Antarctic Firn Thickness Constrained Using a Model Ensemble Approach. Geophysical Research Letters, 2021, 48, e2020GL092060.	4.0	10
4	Freshwater in the Arctic Ocean 2010â€“2019. Ocean Science, 2021, 17, 1081-1102.	3.4	22
5	What is the surface mass balance of Antarctica? An intercomparison of regional climate model estimates. Cryosphere, 2021, 15, 3751-3784.	3.9	55
6	Downscaled surface mass balance in Antarctica: impacts of subsurface processes and large-scale atmospheric circulation. Cryosphere, 2021, 15, 4315-4333.	3.9	14
7	Ice-sheet losses track high-end sea-level rise projections. Nature Climate Change, 2020, 10, 879-881.	18.8	50
8	Hagen BrÃ¦: A Surging Glacier in North Greenlandâ€”35ÂYears of Observations. Geophysical Research Letters, 2020, 47, e2019GL085802.	4.0	14
9	The firn meltwater Retention Model Intercomparison Project (RetMIP): evaluation of nine firn models at four weather station sites on the Greenland ice sheet. Cryosphere, 2020, 14, 3785-3810.	3.9	38
10	GrSMBMIP: intercomparison of the modelled 1980â€“2012 surface mass balance over the Greenland Ice Sheet. Cryosphere, 2020, 14, 3935-3958.	3.9	111
11	Decelerated Greenland Ice Sheet Melt Driven by Positive Summer North Atlantic Oscillation. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7633-7646.	3.3	13
12	An Integrated View of Greenland Ice Sheet Mass Changes Based on Models and Satellite Observations. Remote Sensing, 2019, 11, 1407.	4.0	31
13	The Case for a Sustained Greenland Ice Sheet-Ocean Observing System (GrIOOS). Frontiers in Marine Science, 2019, 6, .	2.5	24
14	Future projections of cyclone activity in the Arctic for the 21st century from regional climate models (Arctic-CORDEX). Global and Planetary Change, 2019, 182, 103005.	3.5	32
15	Rapid expansion of Greenlandâ€™s low-permeability ice slabs. Nature, 2019, 573, 403-407.	27.8	84
16	Contribution of the Greenland Ice Sheet to sea level over the next millennium. Science Advances, 2019, 5, eaav9396.	10.3	164
17	Trends of intense cyclone activity in the Arctic from reanalyses data and regional climate models (Arctic-CORDEX). IOP Conference Series: Earth and Environmental Science, 2019, 231, 012003.	0.3	3
18	Cyclone Activity in the Arctic From an Ensemble of Regional Climate Models (Arctic CORDEX). Journal of Geophysical Research D: Atmospheres, 2018, 123, 2537-2554.	3.3	46

#	Article	IF	Citations
19	Application of PROMICE Qâ€Transect in Situ Accumulation and Ablation Measurements (2000â€“2017) to Constrain Mass Balance at the Southern Tip of the Greenland Ice Sheet. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1235-1256.	2.8	16
20	Algae Drive Enhanced Darkening of Bare Ice on the Greenland Ice Sheet. Geophysical Research Letters, 2017, 44, 11,463.	4.0	101
21	Liquid Water Flow and Retention on the Greenland Ice Sheet in the Regional Climate Model HIRHAM5: Local and Large-Scale Impacts. Frontiers in Earth Science, 2017, 4, .	1.8	72
22	The importance of accurate glacier albedo for estimates of surface mass balance on VatnajÃ¶kull: evaluating the surface energy budget in a regional climate model with automatic weather station observations. Cryosphere, 2017, 11, 1665-1684.	3.9	28
23	The implication of nonradiative energy fluxes dominating Greenland ice sheet exceptional ablation area surface melt in 2012. Geophysical Research Letters, 2016, 43, 2649-2658.	4.0	77
24	Glacier crevasses: Observations, models, and mass balance implications. Reviews of Geophysics, 2016, 54, 119-161.	23.0	126
25	Amplified melt and flow of the Greenland ice sheet driven by late-summer cyclonic rainfall. Nature Geoscience, 2015, 8, 647-653.	12.9	107
26	Role of model initialization for projections of 21st-century Greenland ice sheet mass loss. Journal of Glaciology, 2014, 60, 782-794.	2.2	22
27	Very high resolution regional climate model simulations over Greenland: Identifying added value. Journal of Geophysical Research, 2012, 117, .	3.3	119
28	Testing crevasse-depth models: a field study at BreiÃ°amerkurjÃ¶kull, Iceland. Journal of Glaciology, 2009, 55, 746-752.	2.2	49
29	â€˜Calving lawsâ€™, â€˜sliding lawsâ€™ and the stability of tidewater glaciers. Annals of Glaciology, 2007, 46, 123-130.	1.4	160
30	Calving processes and the dynamics of calving glaciers. Earth-Science Reviews, 2007, 82, 143-179.	9.1	513
31	Modelling Glaciers in the HARMONIE-AROME NWP model. Advances in Science and Research, 0, 14, 323-334.	1.0	10