

CÃ©cile Agosta

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

3,480
citations

159585

30
h-index

223800

46
g-index

88
all docs

88
docs citations

88
times ranked

3363
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. <i>Nature</i> , 2018, 558, 219-222.	27.8	759
2	Reconstructions of the 1900–2015 Greenland ice sheet surface mass balance using the regional climate MAR model. <i>Cryosphere</i> , 2017, 11, 1015-1033.	3.9	310
3	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021, 593, 74-82.	27.8	200
4	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
5	Estimation of the Antarctic surface mass balance using the regional climate model MAR (1979–2015) and identification of dominant processes. <i>Cryosphere</i> , 2019, 13, 281-296.	3.9	171
6	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
7	Century-scale simulations of the response of the West Antarctic Ice Sheet to a warming climate. <i>Cryosphere</i> , 2015, 9, 1579-1600.	3.9	125
8	West Antarctic surface melt triggered by atmospheric rivers. <i>Nature Geoscience</i> , 2019, 12, 911-916.	12.9	112
9	Anthropogenic forcing dominates global mean sea-level rise since 1970. <i>Nature Climate Change</i> , 2016, 6, 701-705.	18.8	105
10	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. <i>Cryosphere</i> , 2020, 14, 2331-2368.	3.9	72
11	An updated and quality controlled surface mass balance dataset for Antarctica. <i>Cryosphere</i> , 2013, 7, 583-597.	3.9	71
12	Diverging future surface mass balance between the Antarctic ice shelves and grounded ice sheet. <i>Cryosphere</i> , 2021, 15, 1215-1236.	3.9	71
13	Transport of Snow by the Wind: A Comparison Between Observations in AdĂlie Land, Antarctica, and Simulations Made with the Regional Climate Model MAR. <i>Boundary-Layer Meteorology</i> , 2013, 146, 133-147.	2.3	66
14	Evaluating Model Simulations of Twentieth-Century Sea Level Rise. Part I: Global Mean Sea Level Change. <i>Journal of Climate</i> , 2017, 30, 8539-8563.	3.2	64
15	Antarctic Atmospheric River Climatology and Precipitation Impacts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033788.	3.3	60
16	CMIP5 model selection for ISMIP6 ice sheet model forcing: Greenland and Antarctica. <i>Cryosphere</i> , 2020, 14, 855-879.	3.9	58
17	Evaluating Model Simulations of Twentieth-Century Sea-Level Rise. Part II: Regional Sea-Level Changes. <i>Journal of Climate</i> , 2017, 30, 8565-8593.	3.2	57
18	The Effect of Foehn-Induced Surface Melt on Firn Evolution Over the Northeast Antarctic Peninsula. <i>Geophysical Research Letters</i> , 2019, 46, 3822-3831.	4.0	55

#	ARTICLE	IF	CITATIONS
19	What is the surface mass balance of Antarctica? An intercomparison of regional climate model estimates. <i>Cryosphere</i> , 2021, 15, 3751-3784.	3.9	55
20	Evaluation of the CMIP5 models in the aim of regional modelling of the Antarctic surface mass balance. <i>Cryosphere</i> , 2015, 9, 2311-2321.	3.9	55
21	A 40-year accumulation dataset for Adelie Land, Antarctica and its application for model validation. <i>Climate Dynamics</i> , 2012, 38, 75-86.	3.8	49
22	Intense atmospheric rivers can weaken ice shelf stability at the Antarctic Peninsula. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	46
23	Brief communication: Impact of the recent atmospheric circulation change in summer on the future surface mass balance of the Greenland Ice Sheet. <i>Cryosphere</i> , 2018, 12, 3409-3418.	3.9	45
24	Comparison between observed and simulated aeolian snow mass fluxes in AdÄ©lie Land, East Antarctica. <i>Cryosphere</i> , 2015, 9, 1373-1383.	3.9	43
25	Modeling the mass and surface heat budgets in a coastal blue ice area of Adelie Land, Antarctica. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	38
26	High-resolution modelling of the Antarctic surface mass balance, application for the twentieth, twenty first and twenty second centuries. <i>Climate Dynamics</i> , 2013, 41, 3247-3260.	3.8	37
27	Oceanic Forcing of Antarctic Climate Change: A Study Using a Stretched-Grid Atmospheric General Circulation Model. <i>Journal of Climate</i> , 2014, 27, 5786-5800.	3.2	37
28	Performance of MAR (v3.11) in simulating the drifting-snow climate and surface mass balance of AdÄ©lie Land, East Antarctica. <i>Geoscientific Model Development</i> , 2021, 14, 3487-3510.	3.6	35
29	Sensitivity of the current Antarctic surface mass balance to sea surface conditions using MAR. <i>Cryosphere</i> , 2018, 12, 3827-3839.	3.9	33
30	Impact of model resolution on simulated wind, drifting snow and surface mass balance in Terre AdÄ©lie, East Antarctica. <i>Journal of Glaciology</i> , 2012, 58, 821-829.	2.2	32
31	Antarctica-Regional Climate and Surface Mass Budget. <i>Current Climate Change Reports</i> , 2017, 3, 303-315.	8.6	29
32	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
33	Interannual variability of summer surface mass balance and surface melting in the Amundsen sector, West Antarctica. <i>Cryosphere</i> , 2020, 14, 229-249.	3.9	25
34	A novel experimental study of aeolian snow transport in Adelie Land (Antarctica). <i>Cold Regions Science and Technology</i> , 2014, 108, 125-138.	3.5	24
35	Future surface mass balance and surface melt in the Amundsen sector of the West Antarctic Ice Sheet. <i>Cryosphere</i> , 2021, 15, 571-593.	3.9	22
36	Melting over the northeast Antarctic Peninsula (1999Ä©2009): evaluation of a high-resolution regional climate model. <i>Cryosphere</i> , 2018, 12, 2901-2922.	3.9	19

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37	Snowfall and Water Stable Isotope Variability in East Antarctica Controlled by Warm Synoptic Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032863.	3.3	15
38	Coastal water vapor isotopic composition driven by katabatic wind variability in summer at Dumont d'Urville, coastal East Antarctica. <i>Earth and Planetary Science Letters</i> , 2019, 514, 37-47.	4.4	14
39	Detecting a forced signal in satellite-era sea-level change. <i>Environmental Research Letters</i> , 2020, 15, 094079.	5.2	11
40	Acceleration of Dynamic Ice Loss in Antarctica From Satellite Gravimetry. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	10
41	A Downscaling Approach Toward High-Resolution Surface Mass Balance Over Antarctica. <i>Surveys in Geophysics</i> , 2011, 32, 507-518.	4.6	9
42	Regional modeling of surface mass balance on the Cook Ice Cap, Kerguelen Islands (49° Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 5	3.8	8
43	Clouds drive differences in future surface melt over the Antarctic ice shelves. <i>Cryosphere</i> , 2022, 16, 2655-2669.	3.9	8
44	Effect of prescribed sea surface conditions on the modern and future Antarctic surface climate simulated by the ARPEGE atmosphere general circulation model. <i>Cryosphere</i> , 2019, 13, 3023-3043.	3.9	4
45	Estimation des tempĂ©ratures au dĂ©but du dernier millĂ©naire dans lâ€™ouest du Groenland: rĂ©sultats prĂ©liminaires issus de lâ€™application dâ€™un modĂ©le glaciologique de type degrĂ©jour sur le glacier du Lyngmarksbr?. <i>Geomorphologie Relief, Processus, Environnement</i> , 2018, 24, .	0.4	4
46	Significant additional Antarctic warming in atmospheric bias-corrected ARPEGE projections with respect to control run. <i>Cryosphere</i> , 2021, 15, 3615-3635.	3.9	2