

Atsuhiko Muto

List of Publications by Year in descending order

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papers

996
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1383
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultralow Surface Temperatures in East Antarctica From Satellite Thermal Infrared Mapping: The Coldest Places on Earth. <i>Geophysical Research Letters</i> , 2018, 45, 6124-6133.	4.0	88
2	Oceanic Forcing of Ice-Sheet Retreat: West Antarctica and More. <i>Annual Review of Earth and Planetary Sciences</i> , 2015, 43, 207-231.	11.0	83
3	Dilatant till facilitates ice-stream flow in northeast Greenland. <i>Earth and Planetary Science Letters</i> , 2014, 401, 57-69.	4.4	73
4	Recent warming at Summit, Greenland: Global context and implications. <i>Geophysical Research Letters</i> , 2013, 40, 2091-2096.	4.0	68
5	Estuaries beneath ice sheets. <i>Geology</i> , 2013, 41, 1159-1162.	4.4	58
6	Initial results from geophysical surveys and shallow coring of the Northeast Greenland Ice Stream (NEGIS). <i>Cryosphere</i> , 2014, 8, 1275-1287.	3.9	56
7	Four-decade record of pervasive grounding line retreat along the Bellingshausen margin of West Antarctica. <i>Geophysical Research Letters</i> , 2016, 43, 5741-5749.	4.0	49
8	Borehole temperatures reveal details of 20th century warming at Bruce Plateau, Antarctic Peninsula. <i>Cryosphere</i> , 2012, 6, 675-686.	3.9	44
9	Recovery Lakes, East Antarctica: Radar assessment of sub-glacial water extent. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	41
10	Ice sheet grounding zone stabilization due to till compaction. <i>Geophysical Research Letters</i> , 2013, 40, 5406-5411.	4.0	40
11	Basal conditions and ice dynamics inferred from radar-derived internal stratigraphy of the northeast Greenland ice stream. <i>Annals of Glaciology</i> , 2014, 55, 127-137.	1.4	40
12	Relating bed character and subglacial morphology using seismic data from Thwaites Glacier, West Antarctica. <i>Earth and Planetary Science Letters</i> , 2019, 507, 199-206.	4.4	40
13	Arise (Antarctic Remote Ice Sensing Experiment) in the East 2003: validation of Satellite-derived Sea-ice data products. <i>Annals of Glaciology</i> , 2006, 44, 288-296.	1.4	33
14	Subglacial bathymetry and sediment distribution beneath Pine Island Glacier ice shelf modeled using aerogravity and in situ geophysical data: New results. <i>Earth and Planetary Science Letters</i> , 2016, 433, 63-75.	4.4	31
15	Recent surface temperature trends in the interior of East Antarctica from borehole firn temperature measurements and geophysical inverse methods. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	27
16	New gravity-derived bathymetry for the Thwaites, Crosson, and Dotson ice shelves revealing two ice shelf populations. <i>Cryosphere</i> , 2020, 14, 2869-2882.	3.9	25
17	Estimation of thin Sea-ice thickness from NOAA AVHRR data in a polynya off the Wilkes Land coast, East Antarctica. <i>Annals of Glaciology</i> , 2006, 44, 269-274.	1.4	22
18	Subglacial bathymetry and sediment layer distribution beneath the Pine Island Glacier ice shelf, West Antarctica, modeled using aerogravity and autonomous underwater vehicle data. <i>Annals of Glaciology</i> , 2013, 54, 27-32.	1.4	22

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19	Weakening of the pinning point buttressing Thwaites Glacier, West Antarctica. <i>Cryosphere</i> , 2022, 16, 397-417.	3.9	21
20	The impact of spatially-variable basal properties on outlet glacier flow. <i>Earth and Planetary Science Letters</i> , 2019, 515, 200-208.	4.4	20
21	Enhanced Firn Densification in High Accumulation Shear Margins of the NE Greenland Ice Stream. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 365-382.	2.8	20
22	Bathymetry and geological structures beneath the Ross Ice Shelf at the mouth of Whillans Ice Stream, West Antarctica, modeled from ground-based gravity measurements. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4535-4546.	3.4	14
23	Possible Role for Tectonics in the Evolving Stability of the Greenland Ice Sheet. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 97-115.	2.8	12
24	Bedforms of Thwaites Glacier, West Antarctica: Character and Origin. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006339.	2.8	12
25	Surface formation, preservation, and history of low-porosity crusts at the WAIS Divide site, West Antarctica. <i>Cryosphere</i> , 2018, 12, 325-341.	3.9	10
26	Bed-type variability and till (dis)continuity beneath Thwaites Glacier, West Antarctica. <i>Annals of Glaciology</i> , 2019, 60, 82-90.	1.4	10
27	Wet subglacial bedforms of the NE Greenland Ice Stream shear margins. <i>Annals of Glaciology</i> , 2019, 60, 91-99.	1.4	10
28	Interpretation of topography and bed properties beneath Thwaites Glacier, West Antarctica using seismic reflection methods. <i>Earth and Planetary Science Letters</i> , 2020, 550, 116543.	4.4	10
29	The effects of tunnel channel formation on the Green Bay Lobe, Wisconsin, USA. <i>Geomorphology</i> , 2019, 324, 36-47.	2.6	6
30	Grounding zone subglacial properties from calibrated active-source seismic methods. <i>Cryosphere</i> , 2021, 15, 1863-1880.	3.9	6