

Jeremie Mouginot

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

14,285
citations

38742

50
h-index

37204

96
g-index

125
all docs

125
docs citations

125
times ranked

8126
citing authors

#	ARTICLE	IF	CITATIONS
1	The Basal Detectability of an Ice-Covered Mars by MARSIS. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	12
2	Rapid glacier retreat rates observed in West Antarctica. <i>Nature Geoscience</i> , 2022, 15, 48-53.	12.9	31
3	Ice velocity and thickness of the world's glaciers. <i>Nature Geoscience</i> , 2022, 15, 124-129.	12.9	106
4	Helheim Glacier's Terminus Position Controls Its Seasonal and Inter-Annual Ice Flow Variability. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
5	A Late Paleocene age for Greenland's Hiawatha impact structure. <i>Science Advances</i> , 2022, 8, eabm2434.	10.3	4
6	Retreat of Humboldt Gletscher, North Greenland, Driven by Undercutting From a Warmer Ocean. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091342.	4.0	10
7	Distributed Global Debris Thickness Estimates Reveal Debris Significantly Impacts Glacier Mass Balance. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091311.	4.0	64
8	Ocean forcing drives glacier retreat in Greenland. <i>Science Advances</i> , 2021, 7, .	10.3	86
9	Ocean melting of the Zachariae Isstrøm and Nioghalvfjerdingsfjorden glaciers, northeast Greenland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	30
10	Seasonal evolution of basal environment conditions of Russell sector, West Greenland, inverted from satellite observation of surface flow. <i>Cryosphere</i> , 2021, 15, 5675-5704.	3.9	5
11	Deep glacial troughs and stabilizing ridges unveiled beneath the margins of the Antarctic ice sheet. <i>Nature Geoscience</i> , 2020, 13, 132-137.	12.9	431
12	Impact of Calving Dynamics on Kangilernata Sermia, Greenland. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088524.	4.0	3
13	Centennial response of Greenland's three largest outlet glaciers. <i>Nature Communications</i> , 2020, 11, 5718.	12.8	36
14	Constraining an Ocean Model Under Getz Ice Shelf, Antarctica, Using A Gravity-Derived Bathymetry. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086522.	4.0	12
15	Data Reduction Using Statistical and Regression Approaches for Ice Velocity Derived by Landsat-8, Sentinel-1 and Sentinel-2. <i>Remote Sensing</i> , 2020, 12, 1935.	4.0	30
16	Continuity of Ice Sheet Mass Loss in Greenland and Antarctica From the GRACE and GRACE Follow-On Missions. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087291.	4.0	155
17	Grounding Line Retreat of Denman Glacier, East Antarctica, Measured With COSMO-SkyMed Radar Interferometry Data. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086291.	4.0	28
18	A Major Collapse of Kangerlussuaq Glacier's Ice Tongue Between 1932 and 1933 in East Greenland. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085954.	4.0	9

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19	Continent-Wide, Interferometric SAR Phase, Mapping of Antarctic Ice Velocity. <i>Geophysical Research Letters</i> , 2019, 46, 9710-9718.	4.0	110
20	Validation of Glacier Topographic Acquisitions from an Airborne Single-Pass Interferometer. <i>Sensors</i> , 2019, 19, 3700.	3.8	2
21	Mapping Surface Flow Velocity of Glaciers at Regional Scale Using a Multiple Sensors Approach. <i>Remote Sensing</i> , 2019, 11, 2498.	4.0	68
22	Heterogeneous retreat and ice melt of Thwaites Glacier, West Antarctica. <i>Science Advances</i> , 2019, 5, eaau3433.	10.3	109
23	Ice Thickness and Bed Elevation of the Northern and Southern Patagonian Icefields. <i>Geophysical Research Letters</i> , 2019, 46, 6626-6635.	4.0	28
24	Forty-six years of Greenland Ice Sheet mass balance from 1972 to 2018. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9239-9244.	7.1	452
25	Four decades of Antarctic Ice Sheet mass balance from 1979 to 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1095-1103.	7.1	662
26	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. <i>Elementa</i> , 2019, 7, .	3.2	6
27	Greenland Ice Sheet solid ice discharge from 1986 through 2017. <i>Earth System Science Data</i> , 2019, 11, 769-786.	9.9	45
28	Vulnerability of Southeast Greenland Glaciers to Warm Atlantic Water From Operation IceBridge and Ocean Melting Greenland Data. <i>Geophysical Research Letters</i> , 2018, 45, 2688-2696.	4.0	51
29	A Century of Stability of Avannarleq and Kujalleq Glaciers, West Greenland, Explained Using High-Resolution Airborne Gravity and Other Data. <i>Geophysical Research Letters</i> , 2018, 45, 3156-3163.	4.0	13
30	Ionospheric correction of InSAR data for accurate ice velocity measurement at polar regions. <i>Remote Sensing of Environment</i> , 2018, 209, 166-180.	11.0	23
31	Control of Ocean Temperature on Jakobshavn Isbr�'s Present and Future Mass Loss. <i>Geophysical Research Letters</i> , 2018, 45, 12,912.	4.0	15
32	A large impact crater beneath Hiawatha Glacier in northwest Greenland. <i>Science Advances</i> , 2018, 4, eaar8173.	10.3	97
33	Insights on the Surge Behavior of Storstr�mmen and L. Bistrup Br�, Northeast Greenland, Over the Last Century. <i>Geophysical Research Letters</i> , 2018, 45, 11,197.	4.0	20
34	Ice flow modelling to constrain the surface mass balance and ice discharge of San Rafael Glacier, Northern Patagonia Icefield. <i>Journal of Glaciology</i> , 2018, 64, 568-582.	2.2	12
35	Ocean-Induced Melt Triggers Glacier Retreat in Northwest Greenland. <i>Geophysical Research Letters</i> , 2018, 45, 8334-8342.	4.0	65
36	Intercomparison and Validation of SAR-Based Ice Velocity Measurement Techniques within the Greenland Ice Sheet CCI Project. <i>Remote Sensing</i> , 2018, 10, 929.	4.0	18

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37	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. <i>Nature</i> , 2018, 558, 219-222.	27.8	759
38	Bed elevation of Jakobshavn Isbrae, West Greenland, from high-resolution airborne gravity and other data. <i>Geophysical Research Letters</i> , 2017, 44, 3728-3736.	4.0	29
39	Increased ice flow in Western Palmer Land linked to ocean melting. <i>Geophysical Research Letters</i> , 2017, 44, 4159-4167.	4.0	47
40	The mechanisms behind Jakobshavn Isbr�'s acceleration and mass loss: A 3� thermomechanical model study. <i>Geophysical Research Letters</i> , 2017, 44, 6252-6260.	4.0	49
41	Mass budget of the glaciers and ice caps of the Queen Elizabeth Islands, Canada, from 1991 to 2015. <i>Environmental Research Letters</i> , 2017, 12, 024016.	5.2	35
42	Channelized Melting Drives Thinning Under a Rapidly Melting Antarctic Ice Shelf. <i>Geophysical Research Letters</i> , 2017, 44, 9796-9804.	4.0	61
43	Modeling the Response of Nioghalvfjerdingsfjorden and Zachariae Isstr�m Glaciers, Greenland, to Ocean Forcing Over the Next Century. <i>Geophysical Research Letters</i> , 2017, 44, 11,071.	4.0	41
44	BedMachine v3: Complete Bed Topography and Ocean Bathymetry Mapping of Greenland From Multibeam Echo Sounding Combined With Mass Conservation. <i>Geophysical Research Letters</i> , 2017, 44, 11051-11061.	4.0	536
45	On the Short-term Grounding Zone Dynamics of Pine Island Glacier, West Antarctica, Observed With COSMO-SkyMed Interferometric Data. <i>Geophysical Research Letters</i> , 2017, 44, 10,436.	4.0	33
46	Ice-dammed lake drainage in west Greenland: Drainage pattern and implications on ice flow and bedrock motion. <i>Geophysical Research Letters</i> , 2017, 44, 7320-7327.	4.0	8
47	Comprehensive Annual Ice Sheet Velocity Mapping Using Landsat-8, Sentinel-1, and RADARSAT-2 Data. <i>Remote Sensing</i> , 2017, 9, 364.	4.0	181
48	Antarctic ICE sheet grounding line migration monitoring using COSMO-SkyMed very short repeat-time SAR interferometry. , 2017, , .		0
49	A modeling study of the effect of runoff variability on the effective pressure beneath Russell Glacier, West Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1834-1848.	2.8	38
50	Grounding line retreat of Pope, Smith, and Kohler Glaciers, West Antarctica, measured with Sentinel-1a radar interferometry data. <i>Geophysical Research Letters</i> , 2016, 43, 8572-8579.	4.0	67
51	Modeling of ocean-induced ice melt rates of five west Greenland glaciers over the past two decades. <i>Geophysical Research Letters</i> , 2016, 43, 6374-6382.	4.0	85
52	Ice flow dynamics and mass loss of Totten Glacier, East Antarctica, from 1989 to 2015. <i>Geophysical Research Letters</i> , 2016, 43, 6366-6373.	4.0	63
53	Rapid submarine ice melting in the grounding zones of ice shelves in West Antarctica. <i>Nature Communications</i> , 2016, 7, 13243.	12.8	58
54	Assimilation of surface velocities acquired between 1996 and 2010 to constrain the form of the basal friction law under Pine Island Glacier. <i>Geophysical Research Letters</i> , 2016, 43, 10,311.	4.0	64

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55	The equivalent slab thickness of Mars' ionosphere: Implications for thermospheric temperature. <i>Geophysical Research Letters</i> , 2015, 42, 3560-3568.	4.0	8
56	Total electron content in the Martian atmosphere: A critical assessment of the Mars Express MARSIS data sets. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2166-2182.	2.4	32
57	Fast retreat of Zachariá Isstråm, northeast Greenland. <i>Science</i> , 2015, 350, 1357-1361.	12.6	158
58	Ice motion of the Patagonian Icefields of South America: 1984–2014. <i>Geophysical Research Letters</i> , 2015, 42, 1441-1449.	4.0	76
59	Observed latitudinal variations in erosion as a function of glacier dynamics. <i>Nature</i> , 2015, 526, 100-103.	27.8	151
60	Grounding line retreat of Totten Glacier, East Antarctica, 1996 to 2013. <i>Geophysical Research Letters</i> , 2015, 42, 8049-8056.	4.0	71
61	Assimilation of Antarctic velocity observations provides evidence for uncharted pinning points. <i>Cryosphere</i> , 2015, 9, 1427-1443.	3.9	39
62	Sensitivity of the dynamics of Pine Island Glacier, West Antarctica, to climate forcing for the next 50 years. <i>Cryosphere</i> , 2014, 8, 1699-1710.	3.9	58
63	High-resolution ice-thickness mapping in South Greenland. <i>Annals of Glaciology</i> , 2014, 55, 64-70.	1.4	27
64	Low-frequency radar sounding of ice in East Antarctica and southern Greenland. <i>Annals of Glaciology</i> , 2014, 55, 138-146.	1.4	16
65	Deeply incised submarine glacial valleys beneath the Greenland ice sheet. <i>Nature Geoscience</i> , 2014, 7, 418-422.	12.9	209
66	Two independent methods for mapping the grounding line of an outlet glacier – an example from the Astrolabe Glacier, Terre Adélie, Antarctica. <i>Cryosphere</i> , 2014, 8, 1331-1346.	3.9	13
67	Mass loss of the Amundsen Sea Embayment of West Antarctica from four independent techniques. <i>Geophysical Research Letters</i> , 2014, 41, 8421-8428.	4.0	91
68	Sustained increase in ice discharge from the Amundsen Sea Embayment, West Antarctica, from 1973 to 2013. <i>Geophysical Research Letters</i> , 2014, 41, 1576-1584.	4.0	333
69	Improved representation of East Antarctic surface mass balance in a regional atmospheric climate model. <i>Journal of Glaciology</i> , 2014, 60, 761-770.	2.2	208
70	Widespread, rapid grounding line retreat of Pine Island, Thwaites, Smith, and Kohler glaciers, West Antarctica, from 1992 to 2011. <i>Geophysical Research Letters</i> , 2014, 41, 3502-3509.	4.0	621
71	Variability in ionospheric total electron content at Mars. <i>Planetary and Space Science</i> , 2013, 86, 117-129.	1.7	16
72	Ice-Shelf Melting Around Antarctica. <i>Science</i> , 2013, 341, 266-270.	12.6	986

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73	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. <i>Cryosphere</i> , 2013, 7, 375-393.	3.9	1,455
74	A new bed elevation dataset for Greenland. <i>Cryosphere</i> , 2013, 7, 499-510.	3.9	341
75	Getz Ice Shelf melting response to changes in ocean forcing. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4152-4168.	2.6	68
76	Low-frequency radar sounding of temperate ice masses in Southern Alaska. <i>Geophysical Research Letters</i> , 2013, 40, 5399-5405.	4.0	42
77	Computing the volume response of the Antarctic Peninsula ice sheet to warming scenarios to 2200. <i>Journal of Glaciology</i> , 2013, 59, 397-409.	2.2	31
78	High-resolution bed topography mapping of Russell Glacier, Greenland, inferred from Operation IceBridge data. <i>Journal of Glaciology</i> , 2013, 59, 1015-1023.	2.2	47
79	Dependence of century-scale projections of the Greenland ice sheet on its thermal regime. <i>Journal of Glaciology</i> , 2013, 59, 1024-1034.	2.2	111
80	Creep deformation and buttressing capacity of damaged ice shelves: theory and application to Larsen C ice shelf. <i>Cryosphere</i> , 2013, 7, 1931-1947.	3.9	78
81	Ice velocity changes in the Ross and Ronne sectors observed using satellite radar data from 1997 and 2009. <i>Cryosphere</i> , 2012, 6, 1019-1030.	3.9	42
82	A Reconciled Estimate of Ice-Sheet Mass Balance. <i>Science</i> , 2012, 338, 1183-1189.	12.6	1,246
83	Dielectric map of the Martian northern hemisphere and the nature of plain filling materials. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	112
84	Mapping of Ice Motion in Antarctica Using Synthetic-Aperture Radar Data. <i>Remote Sensing</i> , 2012, 4, 2753-2767.	4.0	168
85	Ice flow in Greenland for the International Polar Year 2008-2009. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	193
86	Antarctic grounding line mapping from differential satellite radar interferometry. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	366
87	Ice Flow of the Antarctic Ice Sheet. <i>Science</i> , 2011, 333, 1427-1430.	12.6	906
88	Large asymmetric polar scarps on Planum Australe, Mars: Characterization and evolution. <i>Icarus</i> , 2011, 212, 96-109.	2.5	15
89	The 3-5MHz global reflectivity map of Mars by MARSIS/Mars Express: Implications for the current inventory of subsurface H ₂ O. <i>Icarus</i> , 2010, 210, 612-625.	2.5	82
90	Detectability of subsurface interfaces in lunar maria by the LRS/SELENE sounding radar: Influence of mineralogical composition. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	29

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91	MARSIS surface reflectivity of the south residual cap of Mars. <i>Icarus</i> , 2009, 201, 454-459.	2.5	28
92	Surface echo reduction by clutter simulation, application to the Marsis data. , 2009, , .		1
93	North polar deposits of Mars: Extreme purity of the water ice. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	129
94	Correction of the ionospheric distortion on the MARSIS surface sounding echoes. <i>Planetary and Space Science</i> , 2008, 56, 917-926.	1.7	68
95	Observations of aurorae by SPICAM ultraviolet spectrograph on board Mars Express: Simultaneous ASPERA and MARSIS measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	70
96	Subsurface Radar Sounding of the South Polar Layered Deposits of Mars. <i>Science</i> , 2007, 316, 92-95.	12.6	330
97	Accumulation and Erosion of Mars' South Polar Layered Deposits. <i>Science</i> , 2007, 317, 1715-1718.	12.6	84
98	Estimation of the total electron content of the Martian ionosphere using radar sounder surface echoes. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	115
99	FUSION OF MULTI-TEMPORAL AND MULTI-SENSOR ICE VELOCITY OBSERVATIONS. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, V-3-2022, 311-318.	0.0	0