

# Eric J Rignot

## List of Publications by Year in descending order

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Version: 2024-02-01

279  
papers

32,828  
citations

6233

80  
h-index

4750

169  
g-index

313  
all docs

313  
docs citations

313  
times ranked

13108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid glacier retreat rates observed in West Antarctica. Nature Geoscience, 2022, 15, 48-53.	5.4	31
2	Storstr�mmen and L. Bistrup Br��, North Greenland, Protected From Warm Atlantic Ocean Waters. Geophysical Research Letters, 2022, 49, .	1.5	2
3	Greenland Mass Trends From Airborne and Satellite Altimetry During 2011��2020. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	1.0	20
4	The International Bathymetric Chart of the Southern Ocean Version 2. Scientific Data, 2022, 9, .	2.4	28
5	Ice dynamics will remain a primary driver of Greenland ice sheet mass loss over the next century. Communications Earth & Environment, 2021, 2, .	2.6	51
6	Thank You to Our 2020 Reviewers. Perspectives of Earth and Space Scientists, 2021, 2, .	0.2	0
7	Retreat of Humboldt Gletscher, North Greenland, Driven by Undercutting From a Warmer Ocean. Geophysical Research Letters, 2021, 48, e2020GL091342.	1.5	10
8	Automatic delineation of glacier grounding lines in differential interferometric synthetic-aperture radar data using deep learning. Scientific Reports, 2021, 11, 4992.	1.6	22
9	Calving Front Machine (CALFIN): glacial termini dataset and automated deep learning extraction method for Greenland, 1972��2019. Cryosphere, 2021, 15, 1663-1675.	1.5	38
10	The Scientific Legacy of NASA����s Operation IceBridge. Reviews of Geophysics, 2021, 59, e2020RG000712.	9.0	49
11	Physical processes controlling the rifting of Larsen C Ice Shelf, Antarctica, prior to the calving of iceberg A68. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	16
12	Ocean forcing drives glacier retreat in Greenland. Science Advances, 2021, 7, .	4.7	86
13	Cryosphere Sciences with NISAR. , 2021, , .		0
14	Ocean melting of the Zachariae Isstr��m and Nioghalvfjærdsfjorden glaciers, northeast Greenland. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	30
15	Mass balance of the Greenland Ice Sheet from 1992 to 2018. Nature, 2020, 579, 233-239.	13.7	434
16	Deep glacial troughs and stabilizing ridges unveiled beneath the margins of the Antarctic ice sheet. Nature Geoscience, 2020, 13, 132-137.	5.4	431
17	Impact of Calving Dynamics on Kangilernata Sermia, Greenland. Geophysical Research Letters, 2020, 47, e2020GL088524.	1.5	3
18	The International Bathymetric Chart of the Arctic Ocean Version 4.0. Scientific Data, 2020, 7, 176.	2.4	129

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19	Earth's water reservoirs in a changing climate. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190458.	1.0	36
20	Twenty-first century sea-level rise could exceed IPCC projections for strong-warming futures. One Earth, 2020, 3, 691-703.	3.6	52
21	Constraining an Ocean Model Under Getz Ice Shelf, Antarctica, Using A Gravityâ€Derived Bathymetry. Geophysical Research Letters, 2020, 47, e2019GL086522.	1.5	12
22	Continuity of Ice Sheet Mass Loss in Greenland and Antarctica From the GRACE and GRACE Followâ€On Missions. Geophysical Research Letters, 2020, 47, e2020GL087291.	1.5	155
23	Grounding Line Retreat of Denman Glacier, East Antarctica, Measured With COSMOâ€SkyMed Radar Interferometry Data. Geophysical Research Letters, 2020, 47, e2019GL086291.	1.5	28
24	Continentâ€Wide, Interferometric SAR Phase, Mapping of Antarctic Ice Velocity. Geophysical Research Letters, 2019, 46, 9710-9718.	1.5	110
25	Validation of Glacier Topographic Acquisitions from an Airborne Single-Pass Interferometer. Sensors, 2019, 19, 3700.	2.1	2
26	Evaluation of Regional Climate Models Using Regionally Optimized GRACE Mascons in the Amery and Getz Ice Shelves Basins, Antarctica. Geophysical Research Letters, 2019, 46, 13883-13891.	1.5	8
27	Bathymetry of Southeast Greenland From Oceans Melting Greenland (OMG) Data. Geophysical Research Letters, 2019, 46, 11197-11205.	1.5	12
28	Heterogeneous retreat and ice melt of Thwaites Glacier, West Antarctica. Science Advances, 2019, 5, eaau3433.	4.7	109
29	Modeling the response of northwest Greenland to enhanced ocean thermal forcing and subglacial discharge. Cryosphere, 2019, 13, 723-734.	1.5	41
30	Ice Thickness and Bed Elevation of the Northern and Southern Patagonian Icefields. Geophysical Research Letters, 2019, 46, 6626-6635.	1.5	28
31	Detection of Glacier Calving Margins with Convolutional Neural Networks: A Case Study. Remote Sensing, 2019, 11, 74.	1.8	56
32	Forty-six years of Greenland Ice Sheet mass balance from 1972 to 2018. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9239-9244.	3.3	452
33	Bathymetry of Northwest Greenland Using â€œOcean Melting Greenlandâ€(OMG) High-Resolution Airborne Gravity and Other Data. Remote Sensing, 2019, 11, 131.	1.8	22
34	Submarine Moraines in Southeast Greenland Fjords Reveal Contrasting Outletâ€Glacier Behavior since the Last Glacial Maximum. Geophysical Research Letters, 2019, 46, 3279-3286.	1.5	17
35	Pathways of ocean heat towards Pine Island and Thwaites grounding lines. Scientific Reports, 2019, 9, 16649.	1.6	42
36	Impact of Iceberg Calving on the Retreat of Thwaites Glacier, West Antarctica Over the Next Century With Different Calving Laws and Ocean Thermal Forcing. Geophysical Research Letters, 2019, 46, 14539-14547.	1.5	9

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37	Four decades of Antarctic Ice Sheet mass balance from 1979â€“2017. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1095-1103.	3.3	662
38	Vulnerability of Southeast Greenland Glaciers to Warm Atlantic Water From Operation IceBridge and Ocean Melting Greenland Data. Geophysical Research Letters, 2018, 45, 2688-2696.	1.5	51
39	A Century of Stability of Avannarleq and Kujalleq Glaciers, West Greenland, Explained Using Highâ€Resolution Airborne Gravity and Other Data. Geophysical Research Letters, 2018, 45, 3156-3163.	1.5	13
40	Ionospheric correction of InSAR data for accurate ice velocity measurement at polar regions. Remote Sensing of Environment, 2018, 209, 166-180.	4.6	23
41	Submarine landforms reveal varying rates and styles of deglaciation in North-West Greenland fjords. Marine Geology, 2018, 402, 60-80.	0.9	22
42	Designing the Climate Observing System of the Future. Earth's Future, 2018, 6, 80-102.	2.4	24
43	Simulating ice thickness and velocity evolution of Upernavik IsstrÃ¸m 1849â€“2012 by forcing prescribed terminus positions in ISSM. Cryosphere, 2018, 12, 1511-1522.	1.5	13
44	Retreat of Thwaites Glacier, West Antarctica, over the next 100 years using various ice flow models, ice shelf melt scenarios and basal friction laws. Cryosphere, 2018, 12, 3861-3876.	1.5	34
45	Insights on the Surge Behavior of StorstrÃ¸mmen and L. Bistrup BrÃ¸, Northeast Greenland, Over the Last Century. Geophysical Research Letters, 2018, 45, 11,197.	1.5	20
46	Ice flow modelling to constrain the surface mass balance and ice discharge of San Rafael Glacier, Northern Patagonia Icefield. Journal of Glaciology, 2018, 64, 568-582.	1.1	12
47	Origin of Circumpolar Deep Water intruding onto the Amundsen and Bellingshausen Sea continental shelves. Nature Communications, 2018, 9, 3403.	5.8	69
48	Evaluation of Reconstructions of Snow/Ice Melt in Greenland by Regional Atmospheric Climate Models Using Laser Altimetry Data. Geophysical Research Letters, 2018, 45, 8324-8333.	1.5	14
49	Mass Loss of Totten and Moscow University Glaciers, East Antarctica, Using Regionally Optimized GRACE Mascons. Geophysical Research Letters, 2018, 45, 7010-7018.	1.5	27
50	Oceanâ€Induced Melt Triggers Glacier Retreat in Northwest Greenland. Geophysical Research Letters, 2018, 45, 8334-8342.	1.5	65
51	Intercomparison and Validation of SAR-Based Ice Velocity Measurement Techniques within the Greenland Ice Sheet CCI Project. Remote Sensing, 2018, 10, 929.	1.8	18
52	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. Nature, 2018, 558, 219-222.	13.7	759
53	Global sea-level budget 1993â€“present. Earth System Science Data, 2018, 10, 1551-1590.	3.7	409
54	Bathymetry of the Amundsen Sea Embayment sector of West Antarctica from Operation IceBridge gravity and other data. Geophysical Research Letters, 2017, 44, 1360-1368.	1.5	63

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55	Bed elevation of Jakobshavn Isbrae, West Greenland, from high-resolution airborne gravity and other data. <i>Geophysical Research Letters</i> , 2017, 44, 3728-3736.	1.5	29
56	Increased ice flow in Western Palmer Land linked to ocean melting. <i>Geophysical Research Letters</i> , 2017, 44, 4159-4167.	1.5	47
57	Amundsen and <sc>B</sc>ellingshausen <sc>S</sc> eas simulation with optimized ocean, sea ice, and thermodynamic ice shelf model parameters. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6180-6195.	1.0	31
58	Continued retreat of Thwaites Glacier, West Antarctica, controlled by bed topography and ocean circulation. <i>Geophysical Research Letters</i> , 2017, 44, 6191-6199.	1.5	153
59	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.	2.2	35
60	Modeling the Response of Nioghalvfjærdsfjorden and Zachariae Isstrøm Glaciers, Greenland, to Ocean Forcing Over the Next Century. <i>Geophysical Research Letters</i> , 2017, 44, 11,071.	1.5	41
61	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.	1.5	536
62	On the Shortâ€term Grounding Zone Dynamics of Pine Island Glacier, West Antarctica, Observed With COSMOâ€SkyMed Interferometric Data. <i>Geophysical Research Letters</i> , 2017, 44, 10,436.	1.5	33
63	Observations and modeling of oceanâ€induced melt beneath Petermann Glacier Ice Shelf in northwestern Greenland. <i>Geophysical Research Letters</i> , 2017, 44, 8396-8403.	1.5	33
64	Optimal numerical solvers for transient simulations of ice flow using the Ice Sheet System Model (ISSM versions 4.2.5 and 4.11). <i>Geoscientific Model Development</i> , 2017, 10, 155-168.	1.3	5
65	Comprehensive Annual Ice Sheet Velocity Mapping Using Landsat-8, Sentinel-1, and RADARSAT-2 Data. <i>Remote Sensing</i> , 2017, 9, 364.	1.8	181
66	Antarctic ICE sheet grounding line migration monitoring using COSMO-SkyMed very short repeat-time SAR interferometry. , 2017, , .		0
67	Iceberg calving of Thwaites Glacier, West Antarctica: full-Stokes modeling combined with linear elastic fracture mechanics. <i>Cryosphere</i> , 2017, 11, 1283-1296.	1.5	29
68	Oceans Melting Greenland: Early Results from NASAâ€™s Ocean-Ice Mission in Greenland. , 2016, 29, 72-83.		75
69	Introduction to the Special Issue on Ocean-Ice Interaction. , 2016, 29, 19-21.		3
70	Bathymetry data reveal glaciers vulnerable to iceâ€ocean interaction in Uummannaq and Vaigat glacial fjords, west Greenland. <i>Geophysical Research Letters</i> , 2016, 43, 2667-2674.	1.5	52
71	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.	1.0	38
72	Modeling of Store Gletscher's calving dynamics, West Greenland, in response to ocean thermal forcing. <i>Geophysical Research Letters</i> , 2016, 43, 2659-2666.	1.5	99

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73	Grounding line retreat of Pope, Smith, and Kohler Glaciers, West Antarctica, measured with Sentinel-1a radar interferometry data. Geophysical Research Letters, 2016, 43, 8572-8579.	1.5	67
74	Modeling of ocean-induced ice melt rates of five west Greenland glaciers over the past two decades. Geophysical Research Letters, 2016, 43, 6374-6382.	1.5	85
75	Ice flow dynamics and mass loss of Totten Glacier, East Antarctica, from 1989 to 2015. Geophysical Research Letters, 2016, 43, 6366-6373.	1.5	63
76	A constitutive framework for predicting weakening and reduced buttressing of ice shelves based on observations of the progressive deterioration of the remnant Larsen B Ice Shelf. Geophysical Research Letters, 2016, 43, 2027-2035.	1.5	58
77	Ice shelf basal melt rates around Antarctica from simulations and observations. Journal of Geophysical Research: Oceans, 2016, 121, 1085-1109.	1.0	51
78	Rapid submarine ice melting in the grounding zones of ice shelves in West Antarctica. Nature Communications, 2016, 7, 13243.	5.8	58
79	Ice melt, sea level rise and superstorms: evidence from paleoclimate data, climate modeling, and modern observations that 2 Å°C global warming could be dangerous. Atmospheric Chemistry and Physics, 2016, 16, 3761-3812.	1.9	421
80	Ice thickness of the northern half of the Patagonia Icefields of South America from high-resolution airborne gravity surveys. Geophysical Research Letters, 2016, 43, 241-249.	1.5	29
81	Improving Bed Topography Mapping of Greenland Glaciers Using NASA's Oceans Melting Greenland (OMG) Data. , 2016, 29, 62-71.		15
82	Undercutting of marine-terminating glaciers in West Greenland. Geophysical Research Letters, 2015, 42, 5909-5917.	1.5	140
83	Fast retreat of Zachariæ Isstrøm, northeast Greenland. Science, 2015, 350, 1357-1361.	6.0	158
84	Ice motion of the Patagonian Icefields of South America: 1984–2014. Geophysical Research Letters, 2015, 42, 1441-1449.	1.5	76
85	Quantifying mass balance processes on the Southern Patagonia Icefield. Cryosphere, 2015, 9, 25-35.	1.5	77
86	The evolving instability of the remnant Larsen B Ice Shelf and its tributary glaciers. Earth and Planetary Science Letters, 2015, 419, 199-210.	1.8	37
87	Observed latitudinal variations in erosion as a function of glacier dynamics. Nature, 2015, 526, 100-103.	13.7	151
88	Grounding line retreat of Totten Glacier, East Antarctica, 1996 to 2013. Geophysical Research Letters, 2015, 42, 8049-8056.	1.5	71
89	Supraglacial lakes on the Greenland ice sheet advance inland under warming climate. Nature Climate Change, 2015, 5, 51-55.	8.1	95
90	Hydrostatic grounding line parameterization in ice sheet models. Cryosphere, 2014, 8, 2075-2087.	1.5	83

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91	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.	1.5	58
92	High-resolution ice-thickness mapping in South Greenland. <i>Annals of Glaciology</i> , 2014, 55, 64-70.	2.8	27
93	Low-frequency radar sounding of ice in East Antarctica and southern Greenland. <i>Annals of Glaciology</i> , 2014, 55, 138-146.	2.8	16
94	Deeply incised submarine glacial valleys beneath the Greenland ice sheet. <i>Nature Geoscience</i> , 2014, 7, 418-422.	5.4	209
95	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.	1.5	13
96	Mass loss of the Amundsen Sea Embayment of West Antarctica from four independent techniques. <i>Geophysical Research Letters</i> , 2014, 41, 8421-8428.	1.5	91
97	Inferred basal friction and surface mass balance of the Northeast Greenland Ice Stream using data assimilation of ICESat (Ice Cloud and land Elevation Satellite) surface altimetry and ISSM (Ice Sheet) Tj ETQq1 1 0.784314 rg35 /Overl	1.5	35
98	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.	1.5	333
99	Representation of sharp rifts and faults mechanics in modeling ice shelf flow dynamics: Application to Brunt/Stancombâ€Wills Ice Shelf, Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1918-1935.	1.0	12
100	Basal terraces on melting ice shelves. <i>Geophysical Research Letters</i> , 2014, 41, 5506-5513.	1.5	81
101	Improved representation of East Antarctic surface mass balance in a regional atmospheric climate model. <i>Journal of Glaciology</i> , 2014, 60, 761-770.	1.1	208
102	The structure and effect of suture zones in the Larsen C Ice Shelf, Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 588-602.	1.0	32
103	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.	1.5	621
104	Subaqueous melting of Store Glacier, west Greenland from threeâ€dimensional, highâ€resolution numerical modeling and ocean observations. <i>Geophysical Research Letters</i> , 2013, 40, 4648-4653.	1.5	146
105	Observed thinning of Totten Glacier is linked to coastal polynya variability. <i>Nature Communications</i> , 2013, 4, 2857.	5.8	76
106	Ice-Shelf Melting Around Antarctica. <i>Science</i> , 2013, 341, 266-270.	6.0	986
107	Insights into spatial sensitivities of ice mass response to environmental change from the SeaRISE ice sheet modeling project I: Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1002-1024.	1.0	63
108	Inversion of basal friction in Antarctica using exact and incomplete adjoints of a higherâ€order model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1746-1753.	1.0	120

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109	Challenges to Understanding the Dynamic Response of Greenland's Marine Terminating Glaciers to Oceanic and Atmospheric Forcing. Bulletin of the American Meteorological Society, 2013, 94, 1131-1144.	1.7	126
110	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. Cryosphere, 2013, 7, 375-393.	1.5	1,455
111	A new bed elevation dataset for Greenland. Cryosphere, 2013, 7, 499-510.	1.5	341
112	Getz Ice Shelf melting response to changes in ocean forcing. Journal of Geophysical Research: Oceans, 2013, 118, 4152-4168.	1.0	68
113	Low-frequency radar sounding of temperate ice masses in Southern Alaska. Geophysical Research Letters, 2013, 40, 5399-5405.	1.5	42
114	Insights into spatial sensitivities of ice mass response to environmental change from the SeaRISE ice sheet modeling project II: Greenland. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1025-1044.	1.0	79
115	Computing the volume response of the Antarctic Peninsula ice sheet to warming scenarios to 2200. Journal of Glaciology, 2013, 59, 397-409.	1.1	31
116	High-resolution bed topography mapping of Russell Glacier, Greenland, inferred from Operation IceBridge data. Journal of Glaciology, 2013, 59, 1015-1023.	1.1	47
117	Continued slowing of the Ross Ice Shelf and thickening of West Antarctic ice streams. Journal of Glaciology, 2013, 59, 838-844.	1.1	8
118	Dependence of century-scale projections of the Greenland ice sheet on its thermal regime. Journal of Glaciology, 2013, 59, 1024-1034.	1.1	111
119	Creep deformation and buttressing capacity of damaged ice shelves: theory and application to Larsen C ice shelf. Cryosphere, 2013, 7, 1931-1947.	1.5	78
120	Ice velocity changes in the Ross and Ronne sectors observed using satellite radar data from 1997 and 2009. Cryosphere, 2012, 6, 1019-1030.	1.5	42
121	Sensitivity of the ice-shelf/ocean system to the sub-ice-shelf cavity shape measured by NASA IceBridge in Pine Island Glacier, West Antarctica. Annals of Glaciology, 2012, 53, 156-162.	2.8	130
122	Coupling ice flow models of varying orders of complexity with the Tiling method. Journal of Glaciology, 2012, 58, 776-786.	1.1	21
123	Characteristics of ocean waters reaching Greenland's glaciers. Annals of Glaciology, 2012, 53, 202-210.	2.8	194
124	Spreading of warm ocean waters around Greenland as a possible cause for glacier acceleration. Annals of Glaciology, 2012, 53, 257-266.	2.8	89
125	A damage mechanics assessment of the Larsen B ice shelf prior to collapse: Toward a physically-based calving law. Geophysical Research Letters, 2012, 39, .	1.5	84
126	Numerical experiments on subaqueous melting of Greenland tidewater glaciers in response to ocean warming and enhanced subglacial discharge. Annals of Glaciology, 2012, 53, 229-234.	2.8	138



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127	A Reconciled Estimate of Ice-Sheet Mass Balance. <i>Science</i> , 2012, 338, 1183-1189.	6.0	1,246
128	Timing and origin of recent regional ice-mass loss in Greenland. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 293-303.	1.8	179
129	Continental scale, high order, high spatial resolution, ice sheet modeling using the Ice Sheet System Model (ISSM). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	311
130	Sensitivity Analysis of Pine Island Glacier ice flow using ISSM and DAKOTA. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
131	Spatial distribution of glacial erosion rates in the St. Elias range, Alaska, inferred from a realistic model of glacier dynamics. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
132	Basal crevasses on the Larsen C Ice Shelf, Antarctica: Implications for meltwater ponding and hydrofracture. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	53
133	Recent large increases in freshwater fluxes from Greenland into the North Atlantic. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	261
134	Ice flow sensitivity to geothermal heat flux of Pine Island Glacier, Antarctica. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	51
135	Mapping of Ice Motion in Antarctica Using Synthetic-Aperture Radar Data. <i>Remote Sensing</i> , 2012, 4, 2753-2767.	1.8	168
136	Ice flow in Greenland for the International Polar Year 2008â€“2009. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	193
137	Context for the Recent Massive Petermann Glacier Calving Event. <i>Eos</i> , 2011, 92, 117-118.	0.1	35
138	Acceleration of the contribution of the Greenland and Antarctic ice sheets to sea level rise. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	870
139	Acceleration and spatial rheology of Larsen C Ice Shelf, Antarctic Peninsula. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	42
140	Antarctic grounding line mapping from differential satellite radar interferometry. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	366
141	Ice flux divergence anomalies on 79north Glacier, Greenland. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	101
142	A mass conservation approach for mapping glacier ice thickness. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	170
143	Revisiting the Earth's sea-level and energy budgets from 1961 to 2008. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	415
144	Ice Flow of the Antarctic Ice Sheet. <i>Science</i> , 2011, 333, 1427-1430.	6.0	906

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145	The Glacier and Land Ice Surface Topography Interferometer: An Airborne Proof-of-Concept Demonstration of High-Precision Ka-Band Single-Pass Elevation Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 827-842.	2.7	31
146	Ice Sheets and Sea Level: Thinking Outside the Box. Surveys in Geophysics, 2011, 32, 495-505.	2.1	50
147	Is Antarctica melting?. Wiley Interdisciplinary Reviews: Climate Change, 2011, 2, 324-331.	3.6	6
148	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	1.7	135
149	Ice Sheets and Sea Level: Thinking Outside the Box. Space Sciences Series of ISSI, 2011, , 495-505.	0.0	2
150	Ice Sheet Mass Balance. Encyclopedia of Earth Sciences Series, 2011, , 608-612.	0.1	0
151	Rapid submarine melting of the calving faces of West Greenland glaciers. Nature Geoscience, 2010, 3, 187-191.	5.4	338
152	Geophysical Research Letters: New Policies Improve Top-Cited Geosciences Journal. Eos, 2010, 91, 337-337.	0.1	0
153	Spatial patterns of basal drag inferred using control methods from a fullâ€‘Stokes and simpler models for Pine Island Glacier, West Antarctica. Geophysical Research Letters, 2010, 37, .	1.5	286
154	Partitioning Recent Greenland Mass Loss. Science, 2009, 326, 984-986.	6.0	755
155	Dynamics and mass balance of Taylor Glacier, Antarctica: 1. Geometry and surface velocities. Journal of Geophysical Research, 2009, 114, .	3.3	15
156	Roles of marine ice, rheology, and fracture in the flow and stability of the Brunt/Stancombâ€‘Wills Ice Shelf. Journal of Geophysical Research, 2009, 114, .	3.3	69
157	Chapter 1 Impacts of the Oceans on Climate Change. Advances in Marine Biology, 2009, 56, 1-150.	0.7	110
158	A low-frequency ice-penetrating radar system adapted for use from an airplane: test results from Bering and Malaspina Glaciers, Alaska, USA. Annals of Glaciology, 2009, 50, 93-97.	2.8	41
159	The Patagonian ice fields: An updated assessment of sea level contribution. IOP Conference Series: Earth and Environmental Science, 2009, 6, 012006.	0.2	0
160	Recent Antarctic ice mass loss from radarâ€‘interferometry and regional climateâ€‘modelling. Nature Geoscience, 2008, 1, 106-110.	5.4	819
161	Channelized bottom melting and stability of floating ice shelves. Geophysical Research Letters, 2008, 35, .	1.5	145
162	Changes in West Antarctic ice stream dynamics observed with ALOS PALSAR data. Geophysical Research Letters, 2008, 35, .	1.5	191

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163	Deformation, Ecosystem Structure, and Dynamics of Ice (DESDynI). Aerospace Conference Proceedings IEEE, 2008, , .	0.0	18
164	Mass balance of the Greenland ice sheet from 1958 to 2007. Geophysical Research Letters, 2008, 35, .	1.5	344
165	Technology Demonstration of Ka-band Digitally-Beam formed Radar for Ice Topography Mapping. , 2007, , .		8
166	Larsen B Ice Shelf rheology preceding its disintegration inferred by a control method. Geophysical Research Letters, 2007, 34, .	1.5	70
167	Changes in the Velocity Structure of the Greenland Ice Sheet. Science, 2006, 311, 986-990.	6.0	1,055
168	Changes in ice dynamics and mass balance of the Antarctic ice sheet. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 1637-1655.	1.6	88
169	Ice volumetric changes on active volcanoes in southern Chile. Annals of Glaciology, 2006, 43, 111-122.	2.8	28
170	Ice Mass Balance and Antarctic Gravity Change: Satellite and Terrestrial Perspectives. , 2005, , 3-12.		3
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