

Fiammetta Straneo

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

7,535
citations

53794

45
h-index

56724

83
g-index

118
all docs

118
docs citations

118
times ranked

6002
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	North Atlantic warming and the retreat of Greenland's outlet glaciers. <i>Nature</i> , 2013, 504, 36-43.	27.8	351
3	A sea change in our view of overturning in the subpolar North Atlantic. <i>Science</i> , 2019, 363, 516-521.	12.6	333
4	Freshwater and its role in the Arctic Marine System: Sources, disposition, storage, export, and physical and biogeochemical consequences in the Arctic and global oceans. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 675-717.	3.0	317
5	Rapid circulation of warm subtropical waters in a major glacial fjord in East Greenland. <i>Nature Geoscience</i> , 2010, 3, 182-186.	12.9	316
6	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 627-654.	4.9	272
7	Impact of fjord dynamics and glacial runoff on the circulation near Helheim Glacier. <i>Nature Geoscience</i> , 2011, 4, 322-327.	12.9	225
8	The arctic freshwater system: Changes and impacts. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	203
9	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021, 593, 74-82.	27.8	200
10	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
11	Characteristics of ocean waters reaching Greenland's glaciers. <i>Annals of Glaciology</i> , 2012, 53, 202-210.	1.4	194
12	Heat stored in the Earth system: where does the energy go?. <i>Earth System Science Data</i> , 2020, 12, 2013-2041.	9.9	181
13	Is Labrador Sea Water formed in the Irminger basin?. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003, 50, 23-52.	1.4	177
14	Overturning in the Subpolar North Atlantic Program: A New International Ocean Observing System. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 737-752.	3.3	173
15	The Dynamics of Greenland's Glacial Fjords and Their Role in Climate. <i>Annual Review of Marine Science</i> , 2015, 7, 89-112.	11.6	167
16	Seasonal variability of submarine melt rate and circulation in an East Greenland fjord. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2492-2506.	2.6	153
17	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
18	Rapid response of Helheim Glacier in Greenland to climate variability over the past century. <i>Nature Geoscience</i> , 2012, 5, 37-41.	12.9	139

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19	Heat and Freshwater Transport through the Central Labrador Sea*. Journal of Physical Oceanography, 2006, 36, 606-628.	1.7	127
20	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.	3.3	126
21	Externally forced fluctuations in ocean temperature at Greenland glaciers in non-summer months. Nature Geoscience, 2014, 7, 503-508.	12.9	122
22	On the Connection between Dense Water Formation, Overturning, and Poleward Heat Transport in a Convective Basin*. Journal of Physical Oceanography, 2006, 36, 1822-1840.	1.7	110
23	Interannual variability and interdecadal trends in Hudson Bay streamflow. Journal of Marine Systems, 2011, 88, 341-351.	2.1	106
24	The Climode Field Campaign: Observing the Cycle of Convection and Restratification over the Gulf Stream. Bulletin of the American Meteorological Society, 2009, 90, 1337-1350.	3.3	86
25	The outflow from Hudson Strait and its contribution to the Labrador Current. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 926-946.	1.4	82
26	Subsurface iceberg melt key to Greenland fjord freshwater budget. Nature Geoscience, 2018, 11, 49-54.	12.9	80
27	Structure and dynamics of a subglacial discharge plume in a Greenlandic fjord. Journal of Geophysical Research: Oceans, 2016, 121, 8670-8688.	2.6	79
28	Estimating ocean heat transports and submarine melt rates in Sermilik Fjord, Greenland, using lowered acoustic Doppler current profiler (LADCP) velocity profiles. Annals of Glaciology, 2012, 53, 50-58.	1.4	75
29	Nutrient release to oceans from buoyancy-driven upwelling at Greenland tidewater glaciers. Nature Geoscience, 2019, 12, 34-39.	12.9	73
30	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. Cryosphere, 2020, 14, 2331-2368.	3.9	72
31	Characteristics and dynamics of two major Greenland glacial fjords. Journal of Geophysical Research: Oceans, 2014, 119, 3767-3791.	2.6	71
32	Iceberg meltwater fluxes dominate the freshwater budget in Greenland's iceberg-congested glacial fjords. Geophysical Research Letters, 2016, 43, 11,287.	4.0	67
33	Spreading of Labrador sea water: an advective-diffusive study based on Lagrangian data. Deep-Sea Research Part I: Oceanographic Research Papers, 2003, 50, 701-719.	1.4	63
34	Mechanisms behind the Temporary Shutdown of Deep Convection in the Labrador Sea: Lessons from the Great Salinity Anomaly Years 1968-71. Journal of Climate, 2012, 25, 6743-6755.	3.2	63
35	Spreading of Greenland meltwaters in the ocean revealed by noble gases. Geophysical Research Letters, 2015, 42, 7705-7713.	4.0	63
36	Satellite-derived submarine melt rates and mass balance (2011-2015) for Greenland's largest remaining ice tongues. Cryosphere, 2017, 11, 2773-2782.	3.9	62

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37	Estimating Greenland tidewater glacier retreat driven by submarine melting. <i>Cryosphere</i> , 2019, 13, 2489-2509.	3.9	60
38	Heat, Salt, and Freshwater Budgets for a Glacial Fjord in Greenland. <i>Journal of Physical Oceanography</i> , 2016, 46, 2735-2768.	1.7	59
39	Localized Plumes Drive Front-Wide Ocean Melting of A Greenlandic Tidewater Glacier. <i>Geophysical Research Letters</i> , 2018, 45, 12,350.	4.0	58
40	CMIP5 model selection for ISMIP6 ice sheet model forcing: Greenland and Antarctica. <i>Cryosphere</i> , 2020, 14, 855-879.	3.9	58
41	Strong Downslope Wind Events in Ammassalik, Southeast Greenland. <i>Journal of Climate</i> , 2014, 27, 977-993.	3.2	56
42	A protocol for calculating basal melt rates in the ISMIP6 Antarctic ice sheet projections. <i>Cryosphere</i> , 2020, 14, 3111-3134.	3.9	53
43	Water exchange between the continental shelf and the cavity beneath Nioghalvfjærdsbrønden (79 North) Tj ETQq1 1 0.784314 rgBT /Over	4.0	51
44	Twenty-first century ocean forcing of the Greenland ice sheet for modelling of sea level contribution. <i>Cryosphere</i> , 2020, 14, 985-1008.	3.9	51
45	Atlantic water variability on the SE Greenland continental shelf and its relationship to SST and bathymetry. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 847-855.	2.6	49
46	Subpolar North Atlantic western boundary density anomalies and the Meridional Overturning Circulation. <i>Nature Communications</i> , 2021, 12, 3002.	12.8	47
47	Observations of Water Mass Transformation and Eddies in the Lofoten Basin of the Nordic Seas. <i>Journal of Physical Oceanography</i> , 2015, 45, 1735-1756.	1.7	43
48	Linking glacially modified waters to catchment-scale subglacial discharge using autonomous underwater vehicle observations. <i>Cryosphere</i> , 2016, 10, 417-432.	3.9	43
49	Nordic Seas Heat Loss, Atlantic Inflow, and Arctic Sea Ice Cover Over the Last Century. <i>Reviews of Geophysics</i> , 2022, 60, .	23.0	43
50	What is the fate of the river waters of Hudson Bay?. <i>Journal of Marine Systems</i> , 2011, 88, 352-361.	2.1	41
51	Quantifying flow regimes in a Greenland glacial fjord using iceberg drifters. <i>Geophysical Research Letters</i> , 2014, 41, 8411-8420.	4.0	41
52	Idealized Models of Slantwise Convection in a Baroclinic Flow. <i>Journal of Physical Oceanography</i> , 2002, 32, 558-572.	1.7	40
53	Katabatic Wind-Driven Exchange in Fjords. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8246-8262.	2.6	39
54	Export of Strongly Diluted Greenland Meltwater From a Major Glacial Fjord. <i>Geophysical Research Letters</i> , 2018, 45, 4163-4170.	4.0	38

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55	Increased Greenland melt triggered by large-scale, year-round cyclonic moisture intrusions. <i>Cryosphere</i> , 2019, 13, 815-825.	3.9	37
56	The WHOI Jetyak: An autonomous surface vehicle for oceanographic research in shallow or dangerous waters. , 2014, , .		34
57	Seasonality of Freshwater in the East Greenland Current System From 2014 to 2016. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 8828-8848.	2.6	34
58	Late-summer zooplankton community structure, abundance, and distribution in the Hudson Bay system (Canada) and their relationships with environmental conditions, 2003â€“2006. <i>Progress in Oceanography</i> , 2012, 101, 121-145.	3.2	33
59	Comparisons of Localized Convection due to Localized Forcing and to Preconditioning. <i>Journal of Physical Oceanography</i> , 1999, 29, 55-68.	1.7	32
60	Seasonal and interannual variability of the West Greenland Current System in the Labrador Sea in 1993â€“2008. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 1318-1332.	2.6	29
61	Rapid Export of Waters Formed by Convection Near the Irminger Sea's Western Boundary. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085989.	4.0	29
62	Connecting the Greenland Ice Sheet and the Ocean: A Case Study of Helheim Glacier and Sermilik Fjord. , 2016, 29, 34-45.		29
63	Moored observations of synoptic and seasonal variability in the East Greenland Coastal Current. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8838-8857.	2.6	28
64	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
65	Effect of a sheared flow on iceberg motion and melting. <i>Geophysical Research Letters</i> , 2016, 43, 12,520.	4.0	27
66	Characteristics of meltwater export from Jakobshavn Isbr� and Ilulissat Icefjord. <i>Annals of Glaciology</i> , 2017, 58, 107-117.	1.4	26
67	Irminger Current Anticyclones in the Labrador Sea observed in the hydrographic record, 1990â€“2004. <i>Journal of Marine Research</i> , 2009, 67, 361-384.	0.3	25
68	Surface emergence of glacial plumes determined by fjord stratification. <i>Cryosphere</i> , 2020, 14, 1951-1969.	3.9	25
69	The Case for a Sustained Greenland Ice Sheet-Ocean Observing System (GrIOOS). <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	24
70	Campaign to map the bathymetry of a major Greenland fjord. <i>Eos</i> , 2012, 93, 141-142.	0.1	23
71	Nonlinear response of iceberg side melting to ocean currents. <i>Geophysical Research Letters</i> , 2017, 44, 5637-5644.	4.0	22
72	On the effect of a sill on dense water formation in a marginal sea. <i>Journal of Marine Research</i> , 2008, 66, 325-345.	0.3	21

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73	Structure and surface properties of eddies in the southeast Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2295-2309.	2.6	21
74	Mean Conditions and Seasonality of the West Greenland Boundary Current System near Cape Farewell. <i>Journal of Physical Oceanography</i> , 2020, 50, 2849-2871.	1.7	20
75	Impact of periodic intermediary flows on submarine melting of a Greenland glacier. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 7078-7098.	2.6	19
76	Evolution and formation of North Atlantic Eighteen Degree Water in the Sargasso Sea from moored data. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 91, 11-24.	1.4	18
77	Large spatial variations in the flux balance along the front of a Greenland tidewater glacier. <i>Cryosphere</i> , 2019, 13, 911-925.	3.9	17
78	The Role of Wave Dynamics and Small-Scale Topography for Downslope Wind Events in Southeast Greenland. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 2786-2805.	1.7	16
79	Ocean Circulation and Variability Beneath Nioghalvfjærdsbræ (79 North Glacier) Ice Tongue. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016091.	2.6	15
80	The Arctic-Subarctic Exchange Through Hudson Strait. , 2008, , 249-261.		15
81	Arrival of New Great Salinity Anomaly Weakens Convection in the Irminger Sea. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	15
82	Observations of fresh, anticyclonic eddies in the Hudson Strait outflow. <i>Journal of Marine Systems</i> , 2011, 88, 375-384.	2.1	14
83	Pathways and export of Greenland Sea water. <i>Geophysical Monograph Series</i> , 2005, , 89-103.	0.1	13
84	Effects of Wind on Convection in Strongly and Weakly Baroclinic Flows with Application to the Labrador Sea*. <i>Journal of Physical Oceanography</i> , 2002, 32, 2603-2618.	1.7	12
85	Mechanisms of variability in a convective basin. <i>Journal of Marine Research</i> , 2009, 67, 273-303.	0.3	12
86	A 100-year long record of alkenone-derived SST changes by Southeast Greenland. <i>Continental Shelf Research</i> , 2013, 71, 45-51.	1.8	12
87	Icebergs and Sea Ice Detected with Inverted Echo Sounders. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 1042-1057.	1.3	12
88	Transport Variability of the Irminger Sea Deep Western Boundary Current From a Mooring Array. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3246-3278.	2.6	11
89	Characteristic Depths, Fluxes, and Timescales for Greenland's Tidewater Glacier Fjords From Subglacial Discharge-Driven Upwelling During Summer. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	11
90	A conceptual model of an Arctic sea. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	9

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91	A 100-year record of changes in water renewal rate in Sermilik fjord and its influence on calving of Helheim glacier, southeast Greenland. <i>Continental Shelf Research</i> , 2014, 85, 21-29.	1.8	8
92	Trend and interannual variability in southeast Greenland Sea Ice: Impacts on coastal Greenland climate variability. <i>Geophysical Research Letters</i> , 2014, 41, 8619-8626.	4.0	8
93	A Laboratory Study of Iceberg Side Melting in Vertically Sheared Flows. <i>Journal of Physical Oceanography</i> , 2018, 48, 1367-1373.	1.7	8
94	Hudson Strait Inflow: Structure and Variability. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017089.	2.6	8
95	Challenges to Understand the Dynamic Response of Greenland's Marine Terminating Glaciers to Oceanic and Atmospheric Forcing. <i>Bulletin of the American Meteorological Society</i> , 0, , 130117123745009.	3.3	7
96	A data assimilative perspective of oceanic mesoscale eddy evolution during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3329-3344.	4.9	5
97	Heat and salinity budgets at the Stratus mooring in the southeast Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8162-8176.	2.6	5
98	Multi-Sensor Mapping for Low Contrast, Quasi-Dynamic, Large Objects. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 470-476.	5.1	3
99	Cyclonic eddies in the West Greenland Boundary Current System. <i>Journal of Physical Oceanography</i> , 2021, , .	1.7	3
100	More than Skin Deep: Sea Surface Temperature as a Means of Inferring Atlantic Water Variability on the Southeast Greenland Continental Shelf Near Helheim Glacier. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016509.	2.6	3
101	Impact of ocean stratification on submarine melting of a major Greenland outlet glacier. <i>Nature Precedings</i> , 2011, , .	0.1	2
102	Sea Ice Dynamics in Hudson Strait and its Impact on Winter Shipping Operations.. <i>Journal of Geophysical Research: Oceans</i> , 0, , .	2.6	2