

David A Sutherland

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,135
citations

186265

28
h-index

168389

53
g-index

56
all docs

56
docs citations

56
times ranked

2771
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Impact of fjord dynamics and glacial runoff on the circulation near Helheim Glacier. <i>Nature Geoscience</i> , 2011, 4, 322-327.	12.9	225
3	Modeling benefits from nature: using ecosystem services to inform coastal and marine spatial planning. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 2012, 8, 107-121.	2.9	217
4	Characteristics of ocean waters reaching Greenland's glaciers. <i>Annals of Glaciology</i> , 2012, 53, 202-210.	1.4	194
5	The East Greenland Coastal Current: Structure, variability, and forcing. <i>Progress in Oceanography</i> , 2008, 78, 58-77.	3.2	161
6	Distributed subglacial discharge drives significant submarine melt at a Greenland tidewater glacier. <i>Geophysical Research Letters</i> , 2015, 42, 9328-9336.	4.0	140
7	A Model Study of the Salish Sea Estuarine Circulation*. <i>Journal of Physical Oceanography</i> , 2011, 41, 1125-1143.	1.7	131
8	Externally forced fluctuations in ocean temperature at Greenland glaciers in non-summer months. <i>Nature Geoscience</i> , 2014, 7, 503-508.	12.9	122
9	Modeling Turbulent Subglacial Meltwater Plumes: Implications for Fjord-Scale Buoyancy-Driven Circulation. <i>Journal of Physical Oceanography</i> , 2015, 45, 2169-2185.	1.7	98
10	The impact of glacier geometry on meltwater plume structure and submarine melt in Greenland fjords. <i>Geophysical Research Letters</i> , 2016, 43, 9739-9748.	4.0	97
11	Geometric Controls on Tidewater Glacier Retreat in Central Western Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2024-2038.	2.8	86
12	Subsurface iceberg melt key to Greenland fjord freshwater budget. <i>Nature Geoscience</i> , 2018, 11, 49-54.	12.9	80
13	Direct observations of submarine melt and subsurface geometry at a tidewater glacier. <i>Science</i> , 2019, 365, 369-374.	12.6	77
14	Estimating ocean heat transports and submarine melt rates in Sermilik Fjord, Greenland, using lowered acoustic Doppler current profiler (LADCP) velocity profiles. <i>Annals of Glaciology</i> , 2012, 53, 50-58.	1.4	75
15	Inland thinning on the Greenland ice sheet controlled by outlet glacier geometry. <i>Nature Geoscience</i> , 2017, 10, 366-369.	12.9	74
16	Characteristics and dynamics of two major Greenland glacial fjords. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3767-3791.	2.6	71
17	Iceberg meltwater fluxes dominate the freshwater budget in Greenland's iceberg-congested glacial fjords. <i>Geophysical Research Letters</i> , 2016, 43, 11,287.	4.0	67
18	Near-glacier surveying of a subglacial discharge plume: Implications for plume parameterizations. <i>Geophysical Research Letters</i> , 2017, 44, 6886-6894.	4.0	63

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19	Subglacial dischargeâ€driven renewal of tidewater glacier fjords. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6611-6629.	2.6	55
20	Is the Faroe Bank Channel Overflow Hydraulically Controlled?. <i>Journal of Physical Oceanography</i> , 2006, 36, 2340-2349.	1.7	51
21	Freshwater composition of the waters off southeast Greenland and their link to the Arctic Ocean. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	50
22	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
23	Contrasts in the response of adjacent fjords and glaciers to ice-sheet surface melt in West Greenland. <i>Annals of Glaciology</i> , 2016, 57, 25-38.	1.4	46
24	Iceberg properties and distributions in three Greenlandic fjords using satellite imagery. <i>Annals of Glaciology</i> , 2017, 58, 92-106.	1.4	45
25	Meltwater Intrusions Reveal Mechanisms for Rapid Submarine Melt at a Tidewater Glacier. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085335.	4.0	44
26	Quantifying flow regimes in a Greenland glacial fjord using iceberg drifters. <i>Geophysical Research Letters</i> , 2014, 41, 8411-8420.	4.0	41
27	Reconciling Drivers of Seasonal Terminus Advance and Retreat at 13 Central West Greenland Tidewater Glaciers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1590-1607.	2.8	39
28	Patterns of River Influence and Connectivity Among Subbasins of Puget Sound, with Application to Bacterial and Nutrient Loading. <i>Estuaries and Coasts</i> , 2015, 38, 735-753.	2.2	30
29	Marine heat waves, climate change, and failed spawning by coastal invertebrates. <i>Limnology and Oceanography</i> , 2020, 65, 627-636.	3.1	30
30	Connecting the Greenland Ice Sheet and the Ocean: A Case Study of Helheim Glacier and Sermilik Fjord. , 2016, 29, 34-45.		29
31	Moored observations of synoptic and seasonal variability in the <sc>E</sc>ast <sc>G</sc>reenland <sc>C</sc>oastal <sc>C</sc>urrent. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8838-8857.	2.6	28
32	Highly variable iron content modulates iceberg-ocean fertilisation and potential carbon export. <i>Nature Communications</i> , 2019, 10, 5261.	12.8	28
33	The Case for a Sustained Greenland Ice Sheet-Ocean Observing System (GrIOOS). <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	24
34	Laboratory Experiments on the Interaction of a Buoyant Coastal Current with a Canyon: Application to the East Greenland Current. <i>Journal of Physical Oceanography</i> , 2009, 39, 1258-1271.	1.7	21
35	Accessing the Inaccessible: Buoyancy-Driven Coastal Currents on the Shelves of Greenland and Eastern Canada. , 2008, , 703-722.		20
36	Estuarine Exchange Flow Variability in a Seasonal, Segmented Estuary. <i>Journal of Physical Oceanography</i> , 2020, 50, 595-613.	1.7	19

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37	Distinct Frontal Ablation Processes Drive Heterogeneous Submarine Terminus Morphology. <i>Geophysical Research Letters</i> , 2019, 46, 12083-12091.	4.0	18
38	Tracking icebergs with time-lapse photography and sparse optical flow, LeConte Bay, Alaska, 2016–2017. <i>Journal of Glaciology</i> , 2019, 65, 195-211.	2.2	15
39	Observations of fresh, anticyclonic eddies in the Hudson Strait outflow. <i>Journal of Marine Systems</i> , 2011, 88, 375-384.	2.1	14
40	Hydrographic and dissolved oxygen variability in a seasonal Pacific Northwest estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 172, 47-59.	2.1	14
41	Subannual and Seasonal Variability of Atlantic Origin Waters in Two Adjacent West Greenland Fjords. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6670-6687.	2.6	14
42	Seasonal Variations in Iceberg Freshwater Flux in Sermilik Fjord, Southeast Greenland From Sentinel-2 Imagery. <i>Geophysical Research Letters</i> , 2019, 46, 8903-8912.	4.0	13
43	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
44	Variability and Dynamics of Along-Shore Exchange on the West Antarctic Peninsula (WAP) Continental Shelf. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	12
45	Formation, flow and break-up of ephemeral ice mélange at LeConte Glacier and Bay, Alaska. <i>Journal of Glaciology</i> , 2020, 66, 577-590.	2.2	11
46	Subglacial Discharge Reflux and Buoyancy Forcing Drive Seasonality in a Silled Glacial Fjord. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	11
47	Minimal Holocene retreat of large tidewater glaciers in Kåge Bugt, southeast Greenland. <i>Scientific Reports</i> , 2017, 7, 12330.	3.3	9
48	From mountains to sound: modelling the sensitivity of Dungeness crab and Pacific oyster to land–sea interactions in Hood Canal, WA. <i>ICES Journal of Marine Science</i> , 2014, 71, 725-738.	2.5	8
49	Shifting Sediment Dynamics in the Coos Bay Estuary in Response to 150 Years of Modification. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, .	2.6	8
50	Fragmentation theory reveals processes controlling iceberg size distributions. <i>Journal of Glaciology</i> , 2021, 67, 603-612.	2.2	8
51	Measurements of Iceberg Melt Rates Using High-Resolution GPS and Iceberg Surface Scans. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089765.	4.0	7
52	Morainal Bank Evolution and Impact on Terminus Dynamics During a Tidewater Glacier Stillstand. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005359.	2.8	5
53	Estuarine Dissolved Oxygen History Inferred from Sedimentary Trace Metal and Organic Matter Preservation. <i>Estuaries and Coasts</i> , 2019, 42, 1211-1225.	2.2	4
54	Multi-Sensor Mapping for Low Contrast, Quasi-Dynamic, Large Objects. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 470-476.	5.1	3

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55	Impact of ocean stratification on submarine melting of a major Greenland outlet glacier. Nature Precedings, 2011, , .	0.1	2