

Dustin Carroll

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,095
citations

567281

15
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

1580
citing authors

#	ARTICLE	IF	CITATIONS
1	Review article: How does glacier discharge affect marine biogeochemistry and primary production in the Arctic?. <i>Cryosphere</i> , 2020, 14, 1347-1383.	3.9	114
2	Non-linear response of summertime marine productivity to increased meltwater discharge around Greenland. <i>Nature Communications</i> , 2018, 9, 3256.	12.8	107
3	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
4	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
5	Interruption of two decades of Jakobshavn Isbrae acceleration and thinning as regional ocean cools. <i>Nature Geoscience</i> , 2019, 12, 277-283.	12.9	87
6	Subsurface iceberg melt key to Greenland fjord freshwater budget. <i>Nature Geoscience</i> , 2018, 11, 49-54.	12.9	80
7	Global-scale dispersal and connectivity in mangroves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 915-922.	7.1	75
8	Nearâ€ˆglacier surveying of a subglacial discharge plume: Implications for plume parameterizations. <i>Geophysical Research Letters</i> , 2017, 44, 6886-6894.	4.0	63
9	Subglacial dischargeâ€ˆdriven renewal of tidewater glacier fjords. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6611-6629.	2.6	55
10	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
11	The ECCOâ€ˆDarwin Dataâ€ˆAssimilative Global Ocean Biogeochemistry Model: Estimates of Seasonal to Multidecadal Surface Ocean CO_2 and Airâ€ˆSea CO_2 Flux. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001888.	3.8	43
12	Carbon Monitoring System Flux Net Biosphere Exchange 2020 (CMS-Flux NBE 2020). <i>Earth System Science Data</i> , 2021, 13, 299-330.	9.9	40
13	Highly variable iron content modulates iceberg-ocean fertilisation and potential carbon export. <i>Nature Communications</i> , 2019, 10, 5261.	12.8	28
14	Using SAILDRONES to Validate Arctic Sea-Surface Salinity from the SMAP Satellite and from Ocean Models. <i>Remote Sensing</i> , 2021, 13, 831.	4.0	20
15	Distinct Frontal Ablation Processes Drive Heterogeneous Submarine Terminus Morphology. <i>Geophysical Research Letters</i> , 2019, 46, 12083-12091.	4.0	18
16	Mangrove dispersal disrupted by projected changes in global seawater density. <i>Nature Climate Change</i> , 2022, 12, 685-691.	18.8	16
17	Effect of Topography on Subglacial Discharge and Submarine Melting During Tidewater Glacier Retreat. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 66-79.	2.8	15
18	Subannual and Seasonal Variability of Atlanticâ€ˆOrigin Waters in Two Adjacent West Greenland Fjords. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6670-6687.	2.6	14

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19	Attribution of Spaceâ€Time Variability in Globalâ€Ocean Dissolved Inorganic Carbon. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	14
20	Trace Element (Fe, Co, Ni and Cu) Dynamics Across the Salinity Gradient in Arctic and Antarctic Glacier Fjords. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	12
21	Ocean-Ice Interactions in Inglefield Gulf: Early Results from NASAâ€™s Oceans Melting Greenland Mission. <i>Oceanography</i> , 2018, 31, .	1.0	11
22	Characteristic Depths, Fluxes, and Timescales for Greenland's Tidewater Glacier Fjords From Subglacial Dischargeâ€Driven Upwelling During Summer. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	11
23	Improved representation of river runoff in Estimating the Circulation and Climate of the Ocean Version 4 (ECCOV4) simulations: implementation, evaluation, and impacts to coastal plume regions. <i>Geoscientific Model Development</i> , 2021, 14, 1801-1819.	3.6	8
24	Trends in sea surface temperature off the coast of Ecuador and the major processes that contribute to them. <i>Journal of Marine Systems</i> , 2016, 164, 151-164.	2.1	6
25	Sinking Diatom Assemblages as a Key Driver for Deep Carbon and Silicon Export in the Scotia Sea (Southern Ocean). <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	6
26	RADlv1: a non-steady-state early diagenetic model for ocean sediments in Julia and MATLAB/GNU Octave. <i>Geoscientific Model Development</i> , 2022, 15, 2105-2131.	3.6	3
27	The Impact of Regime Shifts on Longâ€Range Persistence and the Scaling of Sea Surface Temperature Off the Coast of California. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3206-3227.	2.6	1
28	A Closer Look at Power-Law Scaling Applied to Sea Surface Temperature from Scripps Pier Using Empirical Mode Decomposition. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, 38, 777-787.	1.3	1