

# F R Cottier

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

3,196  
citations

201385

27  
h-index

197535

49  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2603  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water mass modification in an Arctic fjord through cross-shelf exchange: The seasonal hydrography of Kongsfjorden, Svalbard. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	351
2	Wintertime warming of an Arctic shelf in response to large-scale atmospheric circulation. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	227
3	Fjordâ€™shelf exchanges controlled by ice and brine production: The interannual variation of Atlantic Water in Isfjorden, Svalbard. <i>Continental Shelf Research</i> , 2008, 28, 1838-1853.	0.9	218
4	Calving rates at tidewater glaciers vary strongly with ocean temperature. <i>Nature Communications</i> , 2015, 6, 8566.	5.8	214
5	Unexpected Levels of Biological Activity during the Polar Night Offer New Perspectives on a Warming Arctic. <i>Current Biology</i> , 2015, 25, 2555-2561.	1.8	163
6	In the dark: A review of ecosystem processes during the Arctic polar night. <i>Progress in Oceanography</i> , 2015, 139, 258-271.	1.5	157
7	Diel vertical migration of Arctic zooplankton during the polar night. <i>Biology Letters</i> , 2009, 5, 69-72.	1.0	146
8	Arctic fjords: a review of the oceanographic environment and dominant physical processes. <i>Geological Society Special Publication</i> , 2010, 344, 35-50.	0.8	141
9	Moonlight Drives Ocean-Scale Mass Vertical Migration of Zooplankton during the Arctic Winter. <i>Current Biology</i> , 2016, 26, 244-251.	1.8	136
10	The influence of advection on zooplankton community composition in an Arctic fjord (Kongsfjorden,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	126
11	First Records of Atlantic Mackerel (&lt;i>Scomber scombrus&/i>) from the Svalbard Archipelago, Norway, with Possible Explanations for the Extension of Its Distribution. <i>Arctic</i> , 2015, 68, 54.	0.2	115
12	At the rainbowâ€™s end: high productivity fueled by winter upwelling along an Arctic shelf. <i>Polar Biology</i> , 2015, 38, 5-11.	0.5	78
13	Oceanic heat delivery via Kangerdlugssuaq Fjord to the southâ€™east Greenland ice sheet. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 631-645.	1.0	77
14	Sill dynamics and energy transformation in a jet fjord. <i>Ocean Dynamics</i> , 2004, 54, 307.	0.9	72
15	Arctic complexity: a case study on diel vertical migration of zooplankton. <i>Journal of Plankton Research</i> , 2014, 36, 1279-1297.	0.8	64
16	Impact of warm water advection on the winter zooplankton community in an Arctic fjord. <i>Polar Biology</i> , 2008, 31, 475-481.	0.5	63
17	Variability and decadal trends in the Isfjorden (Svalbard) ocean climate and circulation â€™ An indicator for climate change in the European Arctic. <i>Progress in Oceanography</i> , 2020, 187, 102394.	1.5	59
18	Is Ambient Light during the High Arctic Polar Night Sufficient to Act as a Visual Cue for Zooplankton?. <i>PLoS ONE</i> , 2015, 10, e0126247.	1.1	59

#	ARTICLE	IF	CITATIONS
19	Linkages between salinity and brine channel distribution in young sea ice. <i>Journal of Geophysical Research</i> , 1999, 104, 15859-15871.	3.3	53
20	Phytoplankton Seasonal Dynamics in Kongsfjorden, Svalbard and the Adjacent Shelf. <i>Advances in Polar Ecology</i> , 2019, , 173-227.	1.3	53
21	Effects of glacier runoff and wind on surface layer dynamics and Atlantic Water exchange in Kongsfjorden, Svalbard; a model study. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 187, 260-272.	0.9	52
22	The Kongsfjorden Transect: Seasonal and Inter-annual Variability in Hydrography. <i>Advances in Polar Ecology</i> , 2019, , 49-104.	1.3	51
23	The advective origin of an under-ice spring bloom in the Arctic Ocean using multiple observational platforms. <i>Polar Biology</i> , 2018, 41, 1197-1216.	0.5	47
24	From polar night to midnight sun: Diel vertical migration, metabolism and biogeochemical role of zooplankton in a high Arctic fjord (Kongsfjorden, Svalbard). <i>Limnology and Oceanography</i> , 2017, 62, 1586-1605.	1.6	44
25	Artificial light during the polar night disrupts Arctic fish and zooplankton behaviour down to 200m depth. <i>Communications Biology</i> , 2020, 3, 102.	2.0	44
26	Mesopelagic Sound Scattering Layers of the High Arctic: Seasonal Variations in Biomass, Species Assemblage, and Trophic Relationships. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	35
27	Nitrate supply and uptake in the Atlantic Arctic sea ice zone: seasonal cycle, mechanisms and drivers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190361.	1.6	28
28	Increased occurrence of the jellyfish <i>Periphylla periphylla</i> in the European high Arctic. <i>Polar Biology</i> , 2018, 41, 2615-2619.	0.5	26
29	Glacier Calving Rates Due to Subglacial Discharge, Fjord Circulation, and Free Convection. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2189-2204.	1.0	26
30	Modelling the influence of copepod behaviour on faecal pellet export at high latitudes. <i>Polar Biology</i> , 2013, 36, 579-592.	0.5	22
31	Plankton community composition and vertical migration during polar night in Kongsfjorden. <i>Polar Biology</i> , 2016, 39, 1879-1895.	0.5	21
32	The Underwater Light Climate in Kongsfjorden and Its Ecological Implications. <i>Advances in Polar Ecology</i> , 2019, , 137-170.	1.3	21
33	A key to the past? Element ratios as environmental proxies in two Arctic bivalves. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 465, 316-332.	1.0	20
34	Iceberg melting substantially modifies oceanic heat flux towards a major Greenlandic tidewater glacier. <i>Nature Communications</i> , 2020, 11, 5983.	5.8	20
35	Ice-tethered observational platforms in the Arctic Ocean pack ice. <i>IFAC-PapersOnLine</i> , 2016, 49, 494-499.	0.5	19
36	Meroplankton Diversity, Seasonality and Life-History Traits Across the Barents Sea Polar Front Revealed by High-Throughput DNA Barcoding. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	18

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37	Multidisciplinary ice tank study shedding new light on sea ice growth processes. <i>Eos</i> , 1999, 80, 507-513.	0.1	15
38	Decadal variability on the Northwest European continental shelf. <i>Progress in Oceanography</i> , 2018, 161, 131-151.	1.5	13
39	Autonomous Marine Observatories in Kongsfjorden, Svalbard. <i>Advances in Polar Ecology</i> , 2019, , 515-533.	1.3	12
40	Zooplankton and sediment fluxes in two contrasting fjords reveal Atlantification of the Arctic. <i>Science of the Total Environment</i> , 2021, 773, 145599.	3.9	12
41	Implications of increasing Atlantic influence for Arctic microbial community structure. <i>Scientific Reports</i> , 2020, 10, 19262.	1.6	11
42	Seasonal variations in internal wave energy in a Scottish sea loch. <i>Ocean Dynamics</i> , 2004, 54, 340.	0.9	10
43	Across-sill circulation near a tidal mixing front in a broad fjord. <i>Continental Shelf Research</i> , 2005, 25, 1805-1824.	0.9	10
44	Photophysiological cycles in Arctic krill are entrained by weak midday twilight during the Polar Night. <i>PLoS Biology</i> , 2021, 19, e3001413.	2.6	10
45	A Polar Surface Eddy Obscured by Thermal Stratification. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086281.	1.5	8
46	Phytoplankton community succession and dynamics using optical approaches. <i>Continental Shelf Research</i> , 2021, 213, 104322.	0.9	8
47	Modelling the effect of submarine iceberg melting on glacier-adjacent water properties. <i>Cryosphere</i> , 2022, 16, 1181-1196.	1.5	5
48	The Marine Physical Environment During the Polar Night. <i>Advances in Polar Ecology</i> , 2020, , 17-36.	1.3	4