

# David N Thomas

## List of Publications by Year in descending order

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160  
papers

9,342  
citations

38720

50  
h-index

56687

83  
g-index

198  
all docs

198  
docs citations

198  
times ranked

8048  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antarctic Sea Ice—a Habitat for Extremophiles. <i>Science</i> , 2002, 295, 641-644.	6.0	563
2	Flocculation modelling: a review. <i>Water Research</i> , 1999, 33, 1579-1592.	5.3	377
3	Characteristics of Dissolved Organic Matter in Baltic Coastal Sea Ice: Allochthonous or Autochthonous Origins?. <i>Environmental Science &amp; Technology</i> , 2007, 41, 7273-7279.	4.6	233
4	Large scale importance of sea ice biology in the Southern Ocean. <i>Antarctic Science</i> , 2004, 16, 471-486.	0.5	223
5	Calcium carbonate as ikaite crystals in Antarctic sea ice. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	204
6	Comparison of summer and winter inorganic carbon, oxygen and nutrient concentrations in Antarctic sea ice brine. <i>Marine Chemistry</i> , 1995, 51, 81-91.	0.9	184
7	Seasonal and interannual variability in temperature, chlorophyll and macronutrients in northern Marguerite Bay, Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1988-2006.	0.6	160
8	Biogenic hydrogen and methane production from <i>Chlorella vulgaris</i> and <i>Dunaliella tertiolecta</i> biomass. <i>Biotechnology for Biofuels</i> , 2011, 4, 34.	6.2	158
9	Ecology of Southern Ocean pack ice. <i>Advances in Marine Biology</i> , 2002, 43, 171-IN4.	0.7	133
10	Recent advances in sea-ice microbiology. <i>Environmental Microbiology</i> , 2005, 7, 605-619.	1.8	132
11	Productivity, carbon dioxide uptake and net energy return of microalgal bubble column photobioreactors. <i>Bioresource Technology</i> , 2011, 102, 5775-5787.	4.8	132
12	Experimental evidence for carbonate precipitation and CO <sub>2</sub> degassing during sea ice formation. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1749-1761.	1.6	128
13	Dissolved organic matter and nutrients in the Lena River, Siberian Arctic: Characteristics and distribution. <i>Marine Chemistry</i> , 1998, 59, 301-309.	0.9	127
14	Qualitative changes of riverine dissolved organic matter at low salinities due to flocculation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1919-1933.	1.3	126
15	Surface properties and processes of perennial Antarctic sea ice in summer. <i>Journal of Glaciology</i> , 2001, 47, 613-625.	1.1	122
16	Bioavailability of riverine dissolved organic matter in three Baltic Sea estuaries and the effect of catchment land use. <i>Biogeosciences</i> , 2013, 10, 6969-6986.	1.3	122
17	Evidence against recent climate-induced destabilisation of soil carbon from <sup>14</sup> C analysis of riverine dissolved organic matter. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	115
18	Microalgal community structure and primary production in Arctic and Antarctic sea ice: A synthesis. <i>Elementa</i> , 2018, 6, .	1.1	107

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19	Sea ice contribution to the air-sea CO <sub>2</sub> exchange in the Arctic and Southern Oceans. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 823.	0.8	102
20	Sea ice in the Baltic Sea – A review. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 70, 145-160.	0.9	101
21	Prolonged darkness and diatom mortality I: Marine Antarctic species. <i>Journal of Experimental Marine Biology and Ecology</i> , 1996, 207, 25-41.	0.7	99
22	Interpreting the colour of an estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 59, 13-20.	0.9	99
23	Brief Communication: Ikaite (CaCO <sub>3</sub> ·6H <sub>2</sub> O) discovered in Arctic sea ice. <i>Cryosphere</i> , 2010, 4, 227-230.	1.5	99
24	Dissolved organic matter in Antarctic sea ice. <i>Annals of Glaciology</i> , 2001, 33, 297-303.	2.8	98
25	Dissolved organic matter in Arctic multi-year sea ice during winter: major components and relationship to ice characteristics. <i>Polar Biology</i> , 1995, 15, 477.	0.5	97
26	Dissolved organic matter (DOM) in microalgal photobioreactors: A potential loss in solar energy conversion?. <i>Bioresource Technology</i> , 2010, 101, 8690-8697.	4.8	95
27	Using fluorescence to characterize dissolved organic matter in Antarctic sea ice brines. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	95
28	Chlorophyll <i>a</i> in Antarctic sea ice from historical ice core data. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	95
29	Halophyte filter beds for treatment of saline wastewater from aquaculture. <i>Water Research</i> , 2012, 46, 5102-5114.	5.3	93
30	Distribution and composition of dissolved extracellular polymeric substances (EPS) in Antarctic sea ice. <i>Marine Ecology - Progress Series</i> , 2010, 404, 1-19.	0.9	91
31	Spatial and temporal distribution of <i>Trichodesmium</i> spp. in the stratified Gulf of Aqaba, Red Sea. <i>Marine Ecology - Progress Series</i> , 2002, 239, 241-250.	0.9	86
32	Biogeochemical observations during the winter-spring transition in East Antarctic sea ice: Evidence of iron and exopolysaccharide controls. <i>Marine Chemistry</i> , 2009, 115, 163-175.	0.9	84
33	Particulate organic matter in Antarctic summer sea ice: concentration and stable isotopic composition. <i>Marine Ecology - Progress Series</i> , 2002, 238, 1-13.	0.9	83
34	Production and Characterization of the Intra- and Extracellular Carbohydrates and Polymeric Substances (EPS) of Three Sea-Ice Diatom Species, and Evidence for a Cryoprotective Role for EPS. <i>Journal of Phycology</i> , 2012, 48, 1494-1509.	1.0	80
35	Biogeochemical composition of natural sea ice brines from the Weddell Sea during early austral summer. <i>Limnology and Oceanography</i> , 2007, 52, 1809-1823.	1.6	77
36	Methods for biogeochemical studies of sea ice: The state of the art, caveats, and recommendations. <i>Elementa</i> , 2015, 3, .	1.1	77

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37	Behaviour of dissolved organic matter and inorganic nutrients during experimental sea-ice formation. <i>Annals of Glaciology</i> , 2001, 33, 317-321.	2.8	75
38	Temporal evolution of decaying summer first-year sea ice in the Western Weddell Sea, Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 975-987.	0.6	75
39	Highly branched isoprenoids as proxies for variable sea ice conditions in the Southern Ocean. <i>Antarctic Science</i> , 2011, 23, 487-498.	0.5	75
40	The characteristics of dissolved organic matter (DOM) and chromophoric dissolved organic matter (CDOM) in Antarctic sea ice. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1075-1091.	0.6	71
41	Linking CDOM spectral absorption to dissolved organic carbon concentrations and loadings in boreal estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 111, 107-117.	0.9	68
42	36 year trends in dissolved organic carbon export from Finnish rivers to the Baltic Sea. <i>Science of the Total Environment</i> , 2012, 435-436, 188-201.	3.9	67
43	Variation in phytoplankton standing stock, chemical composition and physiology during sea-ice formation in the southeastern Weddell Sea, Antarctica. <i>Journal of Experimental Marine Biology and Ecology</i> , 1993, 173, 211-230.	0.7	66
44	Cattle grazing drives nitrogen and carbon cycling in a temperate salt marsh. <i>Soil Biology and Biochemistry</i> , 2011, 43, 531-541.	4.2	65
45	Thermophilic, anaerobic co-digestion of microalgal biomass and cellulose for H <sub>2</sub> production. <i>Biodegradation</i> , 2011, 22, 805-814.	1.5	65
46	Exudation and decomposition of chromophoric dissolved organic matter (CDOM) from some temperate macroalgae. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 84, 147-153.	0.9	59
47	Process studies on the ecological coupling between sea ice algae and phytoplankton. <i>Ecological Modelling</i> , 2012, 226, 120-138.	1.2	57
48	Energy efficiency of an outdoor microalgal photobioreactor sited at mid-temperate latitude. <i>Bioresource Technology</i> , 2011, 102, 6687-6695.	4.8	56
49	Processing of humic-rich riverine dissolved organic matter by estuarine bacteria: effects of predegradation and inorganic nutrients. <i>Aquatic Sciences</i> , 2014, 76, 451-463.	0.6	56
50	Life cycle strategy of the Antarctic calanoid copepod <i>Stephos longipes</i> . <i>Progress in Oceanography</i> , 1995, 36, 45-75.	1.5	54
51	Broad-scale predictability of carbohydrates and exopolymers in Antarctic and Arctic sea ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15734-15739.	3.3	52
52	Surface ice and gap layers in Antarctic sea ice: highly productive habitats. <i>Marine Ecology - Progress Series</i> , 2004, 277, 1-12.	0.9	49
53	Biological soup within decaying slimmer sea ice in the Amundsen Sea, Antarctica. <i>Antarctic Research Series</i> , 1998, , 161-171.	0.2	47
54	Influence of freshwater inflow on the inorganic nutrient and dissolved organic matter within coastal sea ice and underlying waters in the Gulf of Finland (Baltic Sea). <i>Estuarine, Coastal and Shelf Science</i> , 2005, 65, 109-122.	0.9	47

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55	Growth and photosynthesis of the Antarctic red algae <i>Palmaria decipiens</i> (Palmariales) and <i>Iridaea cordata</i> (Gigartinales) during and following extended periods of darkness. <i>Phycologia</i> , 1997, 36, 395-405.	0.6	46
56	Bioavailability and radiocarbon age of fluvial dissolved organic matter (DOM) from a northern peatland-dominated catchment: effect of land-use change. <i>Aquatic Sciences</i> , 2014, 76, 393-404.	0.6	46
57	The effect of halophyte planting density on the efficiency of constructed wetlands for the treatment of wastewater from marine aquaculture. <i>Ecological Engineering</i> , 2013, 61, 145-153.	1.6	45
58	Biogeochemistry of platelet ice: its influence on particle flux under fast ice in the Weddell Sea, Antarctica. <i>Polar Biology</i> , 2001, 24, 486-496.	0.5	44
59	Spatial and temporal variability of organic C and N concentrations and export from 30 boreal rivers induced by land use and climate. <i>Science of the Total Environment</i> , 2015, 508, 145-154.	3.9	44
60	Photosynthesis, dark respiration and light independent carbon fixation of endemic Antarctic macroalgae. <i>Polar Biology</i> , 1991, 11, 329.	0.5	43
61	Methodological investigations on DOC determinations by the HCO method. <i>Marine Chemistry</i> , 1997, 56, 39-44.	0.9	43
62	Micro-optodes in sea ice: a new approach to investigate oxygen dynamics during sea ice formation. <i>Aquatic Microbial Ecology</i> , 2002, 29, 297-306.	0.9	43
63	Identifying metabolic pathways for production of extracellular polymeric substances by the diatom <i>Fragilariopsis cylindrus</i> inhabiting sea ice. <i>ISME Journal</i> , 2018, 12, 1237-1251.	4.4	43
64	Dissolved carbohydrates in Antarctic sea ice. <i>Antarctic Science</i> , 2001, 13, 119-125.	0.5	42
65	Scales of horizontal patchiness in chlorophyll a, chemical and physical properties of landfast sea ice in the Gulf of Finland (Baltic Sea). <i>Polar Biology</i> , 2005, 28, 276-283.	0.5	42
66	Long-term trends (1975–2014) in the concentrations and export of carbon from Finnish rivers to the Baltic Sea: organic and inorganic components compared. <i>Aquatic Sciences</i> , 2016, 78, 505-523.	0.6	42
67	Eukaryotic and prokaryotic microbial communities during microalgal biomass production. <i>Bioresource Technology</i> , 2012, 124, 387-393.	4.8	41
68	Selective incorporation of dissolved organic matter (DOM) during sea ice formation. <i>Marine Chemistry</i> , 2013, 155, 148-157.	0.9	41
69	Growth and nitrogen uptake by <i>Salicornia europaea</i> and <i>Aster tripolium</i> in nutrient conditions typical of aquaculture wastewater. <i>Chemosphere</i> , 2015, 120, 414-421.	4.2	41
70	Photodegradation of algal derived dissolved organic carbon. <i>Marine Ecology - Progress Series</i> , 1995, 116, 309-310.	0.9	41
71	Biomass, composition and activity of organism assemblages along a salinity gradient in sea ice subjected to river discharge in the Baltic Sea. <i>Polar Biology</i> , 2006, 30, 183-197.	0.5	40
72	Energy Demands of Nitrogen Supply in Mass Cultivation of Two Commercially Important Microalgal Species, <i>Chlorella vulgaris</i> and <i>Dunaliella tertiolecta</i> . <i>Bioenergy Research</i> , 2012, 5, 669-684.	2.2	39

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73	Macro-nutrient concentrations in Antarctic pack ice: Overall patterns and overlooked processes. <i>Elementa</i> , 2017, 5, .	1.1	39
74	Formation of recalcitrant organic matter: humification dynamics of algal derived dissolved organic carbon and its hydrophobic fractions. <i>Marine Chemistry</i> , 1995, 51, 193-199.	0.9	38
75	Longitudinal Profiles of Growth, Photosynthesis and Light Independent Carbon Fixation in the Antarctic Brown Alga <i>Ascoseira mirabilis</i> . <i>Botanica Marina</i> , 1995, 38, .	0.6	38
76	The occurrence of the copepods <i>Stephos longipes</i> (Calanoida) and <i>Drescheriella glacialis</i> (Harpacticoida) in summer sea ice in the Weddell Sea, Antarctica. <i>Antarctic Science</i> , 2001, 13, 150-157.	0.5	38
77	Meiofauna in sea ice of the Weddell Sea (Antarctica). <i>Polar Biology</i> , 2001, 24, 724-728.	0.5	38
78	Dissolved extracellular polymeric substances (dEPS) dynamics and bacterial growth during sea ice formation in an ice tank study. <i>Polar Biology</i> , 2012, 35, 661-676.	0.5	36
79	Photosynthetic microbes in freezing deserts. <i>Trends in Microbiology</i> , 2005, 13, 87-88.	3.5	35
80	Hydrocarbon-Degrading Bacteria <i>Alcanivorax</i> and <i>Marinobacter</i> Associated With Microalgae <i>Pavlova lutheri</i> and <i>Nannochloropsis oculata</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 572931.	1.5	35
81	Buoyancy and diapause in Antarctic copepods: The role of ammonium accumulation. <i>Limnology and Oceanography</i> , 2010, 55, 1860-1864.	1.6	34
82	The relative contributions of biological and abiotic processes to carbon dynamics in subarctic sea ice. <i>Polar Biology</i> , 2013, 36, 1761-1777.	0.5	34
83	Chlorophyll <i>a</i> in Antarctic Landfast Sea Ice: A First Synthesis of Historical Ice Core Data. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 8444-8459.	1.0	34
84	Variation in Riverine Inputs Affect Dissolved Organic Matter Characteristics throughout the Estuarine Gradient. <i>Frontiers in Marine Science</i> , 2016, 2, .	1.2	33
85	Physico-ecobiogeochemistry of East Antarctic pack ice during the winter-spring transition. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1172-1181.	0.6	32
86	Efficiency of carbon assimilation and photoacclimation in a small unicellular <i>Chaetoceros</i> species from the Weddell Sea (Antarctica): influence of temperature and irradiance. <i>Journal of Experimental Marine Biology and Ecology</i> , 1992, 157, 195-209.	0.7	30
87	The biology and chemistry of land fast ice in the White Sea, Russia? A comparison of winter and spring conditions. <i>Polar Biology</i> , 2003, 26, 707-719.	0.5	30
88	Ikaites solubility in seawater-derived brines at 1atm and sub-zero temperatures to 265K. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 241-253.	1.6	30
89	Platelet ice, the Southern Ocean's hidden ice: a review. <i>Annals of Glaciology</i> , 2020, 61, 341-368.	2.8	30
90	Sea ice contribution to the air-sea CO <sub>2</sub> exchange in the Arctic and Southern Oceans. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011, 63, .	0.8	30

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91	First <i>in situ</i> determination of gas transport coefficients ( $\kappa$ , $\beta$ , and $\gamma$ ) from bulk gas concentration measurements ( $O_2$ , $N_2$ , Ar) in natural sea ice. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6655-6668.	1.0	29
92	Organic Carbon Concentration in the Northern Coastal Baltic Sea between 1975 and 2011. <i>Estuaries and Coasts</i> , 2015, 38, 466-481.	1.0	29
93	Short-term variability in bacterial abundance, cell properties, and incorporation of leucine and thymidine in subarctic sea ice. <i>Aquatic Microbial Ecology</i> , 2013, 71, 57-73.	0.9	29
94	Dissolved organic carbon in sediments from the eastern North Atlantic. <i>Marine Chemistry</i> , 2002, 79, 37-47.	0.9	28
95	Biogeochemical conditions and ice algal photosynthetic parameters in Weddell Sea ice during early spring. <i>Polar Biology</i> , 2009, 32, 1055-1065.	0.5	28
96	Drivers of inorganic carbon dynamics in first-year sea ice: A model study. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 471-495.	1.0	28
97	Salt Tolerance of <i>Ectocarpus siliculosus</i> (Dillw.) Lyngb.: Comparison of Gametophytes, Sporophytes and Isolates of Different Geographic Origin. <i>Botanica Acta</i> , 1991, 104, 26-36.	1.6	27
98	XAD-fractionation of dissolved organic matter: is the hydrophobic fraction seriously underestimated?. <i>Marine Chemistry</i> , 1994, 47, 93-96.	0.9	27
99	The effect of biological activity, $CaCO_3$ mineral dynamics, and $CO_2$ degassing in the inorganic carbon cycle in sea ice in late winter-early spring in the Weddell Sea, Antarctica. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	27
100	Phytoplankton dynamics in relation to hydrography, nutrients and zooplankton at the onset of sea ice formation in the eastern Weddell Sea (Antarctica). <i>Polar Biology</i> , 2005, 28, 700-713.	0.5	26
101	Inorganic carbon removal and isotopic enrichment in Antarctic sea ice gap layers during early austral summer. <i>Marine Ecology - Progress Series</i> , 2009, 386, 15-27.	0.9	26
102	Isolation of Marine Dissolved Organic Matter: Evaluation of Sequential Combinations of XAD Resins 2, 4, and 7. <i>Analytical Chemistry</i> , 1994, 66, 2417-2419.	3.2	25
103	Kinetics of ikaite precipitation and dissolution in seawater-derived brines at sub-zero temperatures to 265 K. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 199-211.	1.6	25
104	Bacterial production, abundance and cell properties in boreal estuaries: relation to dissolved organic matter quantity and quality. <i>Aquatic Sciences</i> , 2016, 78, 525-540.	0.6	25
105	Biogeochemical functioning of grazed estuarine tidal marshes along a salinity gradient. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 100, 83-92.	0.9	24
106	Quantification of ikaite in Antarctic sea ice. <i>Antarctic Science</i> , 2013, 25, 421-432.	0.5	24
107	Spatial variation of biogeochemical properties of landfast sea ice in the Gulf of Bothnia, Baltic Sea. <i>Annals of Glaciology</i> , 2006, 44, 80-87.	2.8	23
108	Bacterial community dynamics and activity in relation to dissolved organic matter availability during sea-ice formation in a mesocosm experiment. <i>MicrobiologyOpen</i> , 2014, 3, 139-156.	1.2	23

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109	Changes in the composition and bioavailability of dissolved organic matter during sea ice formation. <i>Limnology and Oceanography</i> , 2015, 60, 817-830.	1.6	23
110	Variations in photosynthetic characteristics of the Antarctic marine brown alga <i>Ascoseira mirabilis</i> in relation to thallus age and size. <i>European Journal of Phycology</i> , 1996, 31, 167-172.	0.9	21
111	A compilation of data on sea ice algal standing crop from the Belingshausen, Amundsen and Weddell Seas from 1983 to 1994. <i>Antarctic Research Series</i> , 1998, , 85-92.	0.2	21
112	Physical and bacterial controls on inorganic nutrients and dissolved organic carbon during a sea ice growth and decay experiment. <i>Marine Chemistry</i> , 2014, 166, 59-69.	0.9	21
113	Societal implications of a changing Arctic Ocean. <i>Ambio</i> , 2022, 51, 298-306.	2.8	21
114	Interactive Effects of Temperature and Salinity upon Net Photosynthesis of <i>Cladophora glomerata</i> (L.) Kütz. and <i>C. rupestris</i> (L.) Kütz.. <i>Botanica Marina</i> , 1988, 31, 73-78.	0.6	19
115	Copepods in sea ice of the western Weddell Sea during austral spring 2004. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1056-1067.	0.6	19
116	Short-term biogenic particle flux under late spring sea ice in the western Weddell Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1024-1039.	0.6	17
117	CO <sub>2</sub> and CH <sub>4</sub> in sea ice from a subarctic fjord under influence of riverine input. <i>Biogeosciences</i> , 2014, 11, 6525-6538.	1.3	17
118	Maternal and cohort effects modulate offspring responses to multiple stressors. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200492.	1.2	16
119	Allocation of photoassimilated carbon into major algal metabolite fractions: Variation between two diatom species isolated from the Weddell Sea (Antarctica). <i>Polar Biology</i> , 1993, 13, 281.	0.5	15
120	Multidisciplinary ice tank study shedding new light on sea ice growth processes. <i>Eos</i> , 1999, 80, 507-513.	0.1	15
121	Uptake of an amino acid (alanine) and its peptide (tralanine) by the saltmarsh halophytes <i>Salicornia europaea</i> and <i>Aster tripolium</i> and its potential role in ecosystem N cycling and marine aquaculture wastewater treatment. <i>Ecological Engineering</i> , 2015, 75, 145-154.	1.6	15
122	Iron Limitation in the Southern Ocean. <i>Science</i> , 2003, 302, 565c-566.	6.0	14
123	Stratification and the distribution of phytoplankton, nutrients, inorganic carbon, and sulfur in the surface waters of Weddell Sea leads. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 988-999.	0.6	14
124	Shift from Carbon Flow through the Microbial Loop to the Viral Shunt in Coastal Antarctic Waters during Austral Summer. <i>Microorganisms</i> , 2021, 9, 460.	1.6	14
125	Differences in osmoacclimation between sporophytes and gametophytes of the brown alga <i>Ectocarpus siliculosus</i> . <i>Physiologia Plantarum</i> , 1991, 83, 281-289.	2.6	13
126	Copepods in summer platelet ice in the eastern Weddell Sea, Antarctica. <i>Polar Biology</i> , 2004, 27, 502.	0.5	13



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127	Chemical properties of brackish water ice in the Bothnian Bay, the Baltic Sea. <i>Journal of Glaciology</i> , 2004, 50, 292-302.	1.1	13
128	Radiocarbon Dating of Fluvial Organic Matter Reveals Land-Use Impacts in Boreal Peatlands. <i>Environmental Science &amp; Technology</i> , 2014, 48, 12543-12551.	4.6	12
129	Life associated with Baltic Sea ice. , 2017, , 333-357.		12
130	Measurements of mineral particle optical absorption properties in turbid estuaries: Intercomparison of methods and implications for optical inversions. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 99, 95-107.	0.9	11
131	Air-ice carbon pathways inferred from a sea ice tank experiment. <i>Elementa</i> , 2016, 4, .	1.1	11
132	Dissolved organic matter studies in enclosed systems: Application of Hydrophobic fractionation for the assessment of organic nitrogen dynamics. <i>Journal of Marine Systems</i> , 1997, 13, 155-161.	0.9	10
133	Microalgae in Polar Regions: Linking Functional Genomics and Physiology with Environmental Conditions. , 2008, , 285-312.		10
134	Controls on the processing and fate of terrestrially-derived organic carbon in aquatic ecosystems: synthesis of special issue. <i>Aquatic Sciences</i> , 2016, 78, 415-418.	0.6	10
135	Sea-Ice Bacteria <i>Halomonas</i> sp. Strain 363 and <i>Paracoccus</i> sp. Strain 392 Produce Multiple Types of Poly-3-Hydroxyalkanoic Acid (PHA) Storage Polymers at Low Temperature. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0092921.	1.4	9
136	Physiological Responses to Salt Stress of Two Ecologically Different <i>Cladophora</i> Species. <i>Botanica Marina</i> , 1989, 32, .	0.6	8
137	Organic-walled microfossils from the north-west Weddell Sea, Antarctica: records from surface sediments after the collapse of the Larsen-A and Prince Gustav Channel ice shelves. <i>Antarctic Science</i> , 2013, 25, 565-574.	0.5	7
138	A changing Arctic Ocean. <i>Ambio</i> , 2022, 51, 293-297.	2.8	7
139	Rates of organic carbon oxidation in deep sea sediments in the eastern North Atlantic from pore water profiles of O <sub>2</sub> and the δ <sup>13</sup> C of dissolved inorganic carbon. <i>Marine Geology</i> , 2004, 212, 97-111.	0.9	6
140	Dinoflagellates in a fast-ice covered inlet of the Riiser-Larsen Ice Shelf (Weddell Sea). <i>Polar Biology</i> , 2009, 32, 1331-1343.	0.5	4
141	Polar Microalgae: Functional Genomics, Physiology, and the Environment. , 2017, , 305-344.		4
142	Periglacial and terrestrial habitats in polar regions. , 2008, , 53-100.		3
143	Assessing the O <sub>2</sub> budget under sea ice: An experimental and modelling approach. <i>Elementa</i> , 2015, 3, .	1.1	3
144	Unveiling the complexity and ecological function of aquatic macrophyte-animal networks in coastal ecosystems. <i>Biological Reviews</i> , 2022, , .	4.7	3

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145	Biogeochemistry of Sea Ice. Encyclopedia of Earth Sciences Series, 2011, , 98-102.	0.1	2
146	Stress, adaptation, and survival in polar regions. , 2008, , 28-52.		2
147	The impact of dissolved organic carbon and bacterial respiration on pCO <sub>2</sub> in experimental sea ice. Progress in Oceanography, 2016, 141, 153-167.	1.5	1
148	Introduction to the polar regions. , 2008, , 1-27.		1
149	Glacial habitats in polar regions. , 2008, , 101-115.		1
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