Marit Reigstad

List of Publications by Year
in descending order

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77 papers	4,352 citations	101543 36 h-index	110387 64 g-index
79 all docs	79 docs citations	79 times ranked	3392 citing authors

#	Article	IF	Citations
1	Food webs and carbon flux in the Barents Sea. Progress in Oceanography, 2006, 71, 232-287.	3.2	380
2	Future Arctic Ocean Seasonal Ice Zones and Implications for Pelagic-Benthic Coupling. Oceanography, 2011, 24, 220-231.	1.0	269
3	Global and regional drivers of nutrient supply, primary production and CO2 drawdown in the changing Arctic Ocean. Progress in Oceanography, 2015, 139, 171-196.	3.2	226
4	The importance of tidewater glaciers for marine mammals and seabirds in Svalbard, Norway. Journal of Marine Systems, 2014, 129, 452-471.	2.1	218
5	Modelling the ecosystem dynamics of the Barents Sea including the marginal ice zone. Journal of Marine Systems, 2006, 59, 1-24.	2.1	167
6	Variations in hydrography, nutrients and chlorophyll a in the marginal ice-zone and the central Barents Sea. Journal of Marine Systems, 2002, 38, 9-29.	2.1	154
7	Spring bloom dynamics in Kongsfjorden, Svalbard: nutrients, phytoplankton, protozoans and primary production. Polar Biology, 2012, 35, 191-203.	1.2	143
8	The Barents and Chukchi Seas: Comparison of two Arctic shelf ecosystems. Journal of Marine Systems, 2013, 109-110, 43-68.	2.1	130
9	On the trophic fate of Phaeocystis pouchetii (hariot): VI. Significance of Phaeocystis-derived mucus for vertical flux. Journal of Sea Research, 1995, 33, 193-203.	1.0	120
10	The fate of production in the central Arctic Ocean â€“ topâ€“down regulation by zooplankton expatriates?. Progress in Oceanography, 2007, 72, 84-113.	3.2	120
11	Pelagicâ€“benthic coupling in the western Barents Sea: Processes and time scales. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2372-2380.	1.4	116
12	Strong Seasonality of Marine Microbial Eukaryotes in a High-Arctic Fjord (Isfjorden, in West) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 T	3.1	113
13	Vertical export of particulate organic carbon: Attenuation, composition and loss rates in the northern Barents Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2308-2319.	1.4	98
14	Seasonal Variation in Transport of Zooplankton Into the Arctic Basin Through the Atlantic Gateway, Fram Strait. Frontiers in Marine Science, 2018, 5, .	2.5	86
15	Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Journal of Marine Systems, 1996, 8, 53-71.	2.1	84
16	Seasonality of the Physical and Biogeochemical Hydrography in the Inflow to the Arctic Ocean Through Fram Strait. Frontiers in Marine Science, 2018, 5, .	2.5	84
17	Does Phaeocystis spp. contribute significantly to vertical export of organic carbon?. Biogeochemistry, 2007, 83, 217-234.	3.5	82
18	Pelagic and sympagic contribution of organic matter to zooplankton and vertical export in the Barents Sea marginal ice zone. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2330-2339.	1.4	75

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19	Intra-regional comparison of productivity, carbon flux and ecosystem composition within the northern Barents Sea. Progress in Oceanography, 2011, 90, 33-46.	3.2	74
20	Seasonal variability and fluxes of nitrate in the surface waters over the Arctic shelf slope. Geophysical Research Letters, 2015, 42, 3442-3449.	4.0	71
21	Vertical flux regulation by zooplankton in the northern Barents Sea during Arctic spring. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2320-2329.	1.4	67
22	Arctic Ocean outflow shelves in the changing Arctic: A review and perspectives. Progress in Oceanography, 2015, 139, 66-88.	3.2	65
23	Temperature dependence of CO2-enhanced primary production in the European Arctic Ocean. Nature Climate Change, 2015, 5, 1079-1082.	18.8	65
24	Year-round meroplankton dynamics in high-Arctic Svalbard. Journal of Plankton Research, 2016, 38, 522-536.	1.8	61
25	Comparison of the springtime vertical export of biogenic matter in three northern Norwegian fjords. Marine Ecology - Progress Series, 2000, 201, 73-89.	1.9	58
26	Experimental evaluation of planktonic respiration response to warming in the European Arctic Sector. Polar Biology, 2010, 33, 1661-1671.	1.2	57
27	Export or retention? Copepod abundance, faecal pellet production and vertical flux in the marginal ice zone through snap shots from the northern Barents Sea. Polar Biology, 2007, 30, 719-730.	1.2	56
28	Fate of copepod faecal pellets and the role of Oithona spp.. Marine Ecology - Progress Series, 2005, 304, 265-270.	1.9	56
29	Vertical fluxes of nitrate in the seasonal nitracline of the Atlantic sector of the Arctic Ocean. Journal of Geophysical Research: Oceans, 2016, 121, 5282-5295.	2.6	53
30	The contribution of single and colonial cells of Phaeocystis pouchetii to spring and summer blooms in the north-eastern North Atlantic. Harmful Algae, 2005, 4, 823-840.	4.8	47
31	Closing the loop â€“ Approaches to monitoring the state of the Arctic Mediterranean during the International Polar Year 2007â€“2008. Progress in Oceanography, 2011, 90, 62-89.	3.2	47
32	Pelagicâ€Benthic Coupling in the Nordic Seas: The Role of Episodic Events. Marine Ecology, 1996, 17, 447-471.	1.1	42
33	Dividing mesozooplankton into upper and lower size groups: Applications to the grazing impact in the Marginal Ice Zone of the Barents Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2245-2256.	1.4	41
34	On the trophic fate of Phaeocystis pouchetii. VII. Sterols and fatty acids reveal sedimentation of P. pouchetii-derived organic matter via krill. Marine Ecology - Progress Series, 2001, 209, 55-69.	1.9	41
35	Importance of advection for pelagic-benthic coupling in north Norwegian fjords. Sarsia, 1996, 80, 245-257.	0.5	39
36	Ice algal assemblages and vertical export of organic matter from sea ice in the Barents Sea and Nansen Basin (Arctic Ocean). Polar Biology, 2009, 32, 1261-1273.	1.2	39

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37	Seasonality of vertical flux and sinking particle characteristics in an ice-free high arctic fjordâ€"Different from subarctic fjords?. Journal of Marine Systems, 2016, 154, 192-205.	2.1	38
38	Degradation of copepod faecal pellets in the upper layer: role of microbial community and Calanus finmarchicus. Marine Ecology - Progress Series, 2012, 462, 39-49.	1.9	33
39	Seasonal patterns in Arctic planktonic metabolism (Fram Strait â€“ Svalbard region). Biogeosciences, 2013, 10, 1451-1469.	3.3	33
40	Potential drivers of sinking particle's size spectra and vertical flux of particulate organic carbon (<scp>POC</scp>): <scp>T</scp>urbulence, phytoplankton, and zooplankton. Journal of Geophysical Research: Oceans, 2014, 119, 6900-6917.	2.6	31
41	Microbial communities and processes in ice-covered Arctic waters of the northwestern Fram Strait (75 to 80Â°N) during the vernal pre-bloom phase. Aquatic Microbial Ecology, 2011, 64, 253-266.	1.8	30
42	PARTITIONING OF POLYCHLORINATED BIPHENYLS BETWEEN ARCTIC SEAWATER AND SIZE-FRACTIONATED ZOOPLANKTON. Environmental Toxicology and Chemistry, 2006, 25, 1720.	4.3	29
43	New Production Regulates Export Stoichiometry in the Ocean. PLoS ONE, 2013, 8, e54027.	2.5	29
44	Seasonal dynamics of meroplankton in a high-latitude fjord. Journal of Marine Systems, 2017, 168, 17-30.	2.1	28
45	Influence of dissolved silicate on vertical flux of particulate biogenic matter. Marine Pollution Bulletin, 1996, 33, 10-21.	5.0	26
46	Seasonal variation in hydrography, nutrients, and suspended biomass in a subarctic fjord: Applying hydrographic features and biological markers to trace water masses and circulation significant for phytoplankton production. Sarsia, 2000, 85, 237-249.	0.5	26
47	Carbon Export in the Seasonal Sea Ice Zone North of Svalbard From Winter to Late Summer. Frontiers in Marine Science, 2021, 7, .	2.5	26
48	Trophic model of a lightly exploited cod-dominated ecosystem. Ecological Modelling, 2008, 214, 95-111.	2.5	25
49	Episodic Arctic CO2 Limitation in the West Svalbard Shelf. Frontiers in Marine Science, 2018, 5, .	2.5	25
50	Sources of settling material: aggregation and zooplankton mediated fluxes in the Gulf of Riga. Journal of Marine Systems, 1999, 23, 197-210.	2.1	24
51	A carbon budget for the Barents Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 1532-1542.	1.4	21
52	Seasonal and spatial variation of suspended and sedimented nutrients (C, N, P) in the pelagic system of the Gulf of Riga. Journal of Marine Systems, 1999, 23, 211-232.	2.1	20
53	Responses in Arctic marine carbon cycle processes: conceptual scenarios and implications for ecosystem function. Polar Research, 2015, 34, 24252.	1.6	19
54	Influence of spatial heterogeneity on the type of zooplankton functional response: A study based on field observations. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2285-2291.	1.4	18

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55	Zooplankton-mediated carbon export: A seasonal study in a northern Norwegian fjord. Marine Biology Research, 2010, 6, 461-471.	0.7	18
56	Organic matter characterization and fate in the sub-arctic Norwegian fjords during the late spring/summer period. Estuarine, Coastal and Shelf Science, 2005, 62, 95-107.	2.1	17
57	Asynchronous Accumulation of Organic Carbon and Nitrogen in the Atlantic Gateway to the Arctic Ocean. Frontiers in Marine Science, 2018, 5, .	2.5	17
58	Increased degradation of copepod faecal pellets by co-acting dinoflagellates and Centropages hamatus. Marine Ecology - Progress Series, 2014, 516, 61-70.	1.9	16
59	Significance of vertical flux as a sink for surface water DMSP and as a source for the sediment surface in coastal zones of northern Europe. Estuarine, Coastal and Shelf Science, 2006, 68, 473-488.	2.1	15
60	Sampling planktonic salmon lice in Norwegian fjords. Aquaculture Environment Interactions, 2019, 11, 701-715.	1.8	13
61	Corrigendum to "Seasonal patterns in Arctic planktonic metabolism (Fram Strait â€“ Svalbard) Tj ETQq1 1 0.784314 rgBT /O	3.3	12
62	Food Web Functions and Interactions During Spring and Summer in the Arctic Water Inflow Region: Investigated Through Inverse Modeling. Frontiers in Marine Science, 2019, 6, .	2.5	12
63	Organic matter characterization in Barents Sea and eastern Arctic Ocean during summer. Marine Chemistry, 2007, 105, 151-165.	2.3	11
64	Continuous daylight in the high-Arctic summer supports high plankton respiration rates compared to those supported in the dark. Scientific Reports, 2017, 7, 1247.	3.3	11
65	Valuing Blue Carbon Changes in the Arctic Ocean. Frontiers in Marine Science, 2019, 6, .	2.5	11
66	Effects of mortality changes on biomass and production in Calanus spp. populations. Aquatic Biology, 2011, 12, 129-145.	1.4	11
67	Small copepods matter: population dynamics of Microsetella norvegica in a high-latitude coastal ecosystem. Journal of Plankton Research, 2018, 40, 446-457.	1.8	10
68	Relationship Between Carbon- and Oxygen-Based Primary Productivity in the Arctic Ocean, Svalbard Archipelago. Frontiers in Marine Science, 2019, 6, .	2.5	10
69	Improving Chlorophyll-A Estimation From Sentinel-2 (MSI) in the Barents Sea Using Machine Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5529-5549.	4.9	9
70	Does Phaeocystis spp. contribute significantly to vertical export of organic carbon?. , 2007, , 217-234.		7
71	Upward nitrate flux and downward particulate organic carbon flux under contrasting situations of stratification and turbulent mixing in an Arctic shelf sea. Elementa, 2017, 5, .	3.2	7
72	Vertical export of marine pelagic protists in an ice-free high-Arctic fjord (Adventfjorden, West) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	1.8	5

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73	Spatial patterns of spring meroplankton along environmental gradients in a sub-Arctic fjord. Aquatic Biology, 2017, 26, 185-197.	1.4	5
74	Arctic sea ice algae differ markedly from phytoplankton in their ecophysiological characteristics. Marine Ecology - Progress Series, 2021, 666, 31-55.	1.9	4
75	Editorial: Carbon Bridge to the Arctic. Frontiers in Marine Science, 2020, 7, .	2.5	2
76	Ocean Color Net (OCN) for the Barents Sea. , 2020, , .		1
77	Surface aggregations of Calanus finmarchicus during the polar night. ICES Journal of Marine Science, 0, , .	2.5	1