Torkel Gissel Nielsen

List of Publications by Citations

70 papers	2,443 citations	24 h-index	48 g-index
75 ext. papers	3,050 ext. citations	4.2 avg, IF	5.45 L-index

#	Paper	IF	Citations
70	Abundance, size and polymer composition of marine microplastics ≥10 μm in the Atlantic Ocean and their modelled vertical distribution. *Marine Pollution Bulletin*, **2015**, 100, 70-81	6.7	385
69	Microplastic exposure studies should be environmentally realistic. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4121-2	11.5	333
68	The North Atlantic Ocean as habitat for Calanus finmarchicus: Environmental factors and life history traits. *Progress in Oceanography*, **2014**, 129, 244-284	3.8	126
67	No increase in marine microplastic concentration over the last three decades - A case study from the Baltic Sea. *Science of the Total Environment*, **2018**, 621, 1272-1279	10.2	110
66	Bridging the gap between marine biogeochemical and fisheries sciences; configuring the zooplankton link. *Progress in Oceanography*, **2014**, 129, 176-199	3.8	100
65	The trophic role of marine pelagic ciliates and heterotrophic dinoflagellates in arctic and temperate coastal ecosystems: A cross-latitude comparison. *Limnology and Oceanography*, **2002**, 47, 427-439	4.8	91
64	Oceanic fronts in the Sargasso Sea control the early life and drift of Atlantic eels. *Proceedings of the Royal Society B: Biological Sciences*, **2010**, 277, 3593-9	4.4	70
63	Induction of domoic acid production in the toxic diatom Pseudo-nitzschia seriata by calanoid copepods. *Aquatic Toxicology*, **2015**, 159, 52-61	5.1	58
62	Copepod guts as biogeochemical hotspots in the sea: Evidence from microelectrode profiling of Calanus spp. *Limnology and Oceanography*, **2011**, 56, 666-672	4.8	57
61	Dangerous Relations in the Arctic Marine Food Web: Interactions between Toxin Producing Pseudo-nitzschia Diatoms and Calanus Copepodites. *Marine Drugs*, **2015**, 13, 3809-35	6	54
60	Oceanographic regime shift during 1997 in Disko Bay, Western Greenland. *Limnology and Oceanography*, **2012**, 57, 634-644	4.8	53
59	Effects of pyrene on grazing and reproduction of Calanus finmarchicus and Calanus glacialis from Disko Bay, West Greenland. *Aquatic Toxicology*, **2008**, 87, 99-107	5.1	53
58	Microplastic does not magnify the acute effect of PAH pyrene on predatory performance of a tropical fish (Lates calcarifer). *Aquatic Toxicology*, **2018**, 198, 287-293	5.1	50
57	The zooplankton community in the Greenland Sea: Composition and role in carbon turnover. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2006**, 53, 76-93	2.5	49
56	The effect of changes in temperature and food on the development of Calanus finmarchicus and Calanus helgolandicus populations. *Limnology and Oceanography*, **2012**, 57, 211-220	4.8	46
55	Annual population development and production by small copepods in Disko Bay, western Greenland. *Marine Biology*, **2008**, 155, 63-77	2.5	46
54	Oil exposure in a warmer Arctic: potential impacts on key zooplankton species. *Marine Biology*, **2011**, 158, 1339-1347	2.5	38

53	Induction of domoic acid production in diatoms-Types of grazers and diatoms are important. *Harmful Algae*, **2018**, 79, 64-73	5.3	35
52	Copepod carcasses as microbial hot spots for pelagic denitrification. *Limnology and Oceanography*, **2015**, 60, 2026-2036	4.8	33
51	Live discrimination of Calanus glacialis and C. finmarchicus females: can we trust phenological differences?. *Marine Biology*, **2014**, 161, 1299-1306	2.5	32
50	Effects of pyrene exposure and temperature on early development of two co-existing Arctic copepods. *Ecotoxicology*, **2013**, 22, 184-98	2.9	31
49	Calanus spp.□Vectors for the biotoxin, domoic acid, in the Arctic marine ecosystem?. *Harmful Algae* , **2012**, 20, 165-174	5.3	29
48	Borealization of Arctic zooplankton□Smaller and less fat zooplankton species in Disko Bay, Western Greenland. *Limnology and Oceanography*, **2020**, 65, 1175-1188	4.8	25
47	Increased tolerance to oil exposure by the cosmopolitan marine copepod Acartia tonsa. *Science of the Total Environment*, **2017**, 607-608, 87-94	10.2	24
46	Sensitivity of Calanus spp. copepods to environmental changes in the North Sea using life-stage structured models. *Progress in Oceanography*, **2013**, 111, 24-37	3.8	23
45	Early development of Calanus hyperboreus nauplii: Response to a changing ocean. *Limnology and Oceanography*, **2013**, 58, 2109-2121	4.8	23
44	Deciphering the structure of the West Greenland marine food web using stable isotopes (□13C, □15N). *Marine Biology*, **2016**, 163, 1	2.5	23
43	Evaluating pyrene toxicity on Arctic key copepod species Calanus hyperboreus. *Ecotoxicology*, **2014**, 23, 163-74	2.9	22
42	The functional biology and trophic role of krill (Thysanoessa raschii) in a Greenlandic fjord. *Marine Biology*, **2011**, 158, 1387-1402	2.5	22
41	Extreme temperature impairs growth and productivity in a common tropical marine copepod. *Scientific Reports*, **2019**, 9, 4550	4.9	20
40	Population dynamics and production of the small copepod Oithona spp. in a subarctic fjord of West Greenland. *Polar Biology*, **2014**, 37, 953-965	2	20
39	Feeding opportunities of larval and juvenile cod (Gadus morhua) in a Greenlandic fjord: temporal and spatial linkages between cod and their preferred prey. *Marine Biology*, **2014**, 161, 2831-2846	2.5	20
38	Metazooplankton distribution across the Southern Indian Ocean with emphasis on the role of Larvaceans. *Journal of Plankton Research*, **2009**, 31, 525-540	2.2	20
37	Heterogeneous distribution of plankton within the mixed layer and its implications for bloom formation in tropical seas. *Scientific Reports*, **2015**, 5, 11240	4.9	19
36	Quantification of plankton-sized microplastics in a productive coastal Arctic marine ecosystem. *Environmental Pollution*, **2020**, 266, 115248	9.3	19

35	Production and fate of copepod fecal pellets across the Southern Indian Ocean. *Marine Biology*, **2011**, 158, 677-688	2.5	18
34	Impact of Pyrene Exposure during Overwintering of the Arctic Copepod Calanus glacialis. *Environmental Science & Technology*, **2018**, 52, 10328-10336	10.3	17
33	Plankton community composition and vertical migration during polar night in Kongsfjorden. *Polar Biology*, **2016**, 39, 1879-1895	2	17
32	Description of Pyramimonas diskoicola sp. nov. and the importance of the flagellate Pyramimonas (Prasinophyceae) in Greenland sea ice during the winterspring transition. *Polar Biology*, **2014**, 37, 1479-1494	2	15
31	Structuring of zooplankton and fish larvae assemblages in a freshwater-influenced Greenlandic fjord: influence from hydrography and prey availability. *Journal of Plankton Research*, **2015**, 37, 102-119	2.2	15
30	Concentrations of sunscreens and antioxidant pigments in Arctic Calanus spp. in relation to ice cover, ultraviolet radiation, and the phytoplankton spring bloom. *Limnology and Oceanography*, **2015**, 60, 2197-2206	4.8	14
29	Early development of Calanus glacialis and C. finmarchicus. *Limnology and Oceanography*, **2015**, 60, 934-948	4.8	13
28	Effects of oil spill response technologies on the physiological performance of the Arctic copepod Calanus glacialis. *Aquatic Toxicology*, **2018**, 199, 65-76	5.1	13
27	Krill diversity and population structure along the sub-Arctic Godthbsfjord, SW Greenland. *Journal of Plankton Research*, **2014**, 36, 800-815	2.2	13
26	Effects of elevated pH on marine copepods in mass cultivation systems: practical implications. *Journal of Plankton Research*, **2017**, 39, 984-993	2.2	13
25	The effect ofPseudo-nitzschia seriataon grazing and fecundity ofCalanus finmarchicusandCalanusglacialis. *Journal of Plankton Research*, **2016**, 38, 564-574	2.2	12
24	Vertical structure of plankton communities in areas of European eel larvae distribution in the Sargasso Sea. *Journal of Plankton Research*, **2018**, 40, 362-375	2.2	12
23	Distinct Communities of Free-Living and Copepod-Associated Microorganisms along a Salinity Gradient in Godthbsfjord, West Greenland. *Arctic, Antarctic, and Alpine Research*, **2013**, 45, 471-480	1.8	11
22	Ingestion and impact of microplastics on arctic Calanus copepods. *Aquatic Toxicology*, **2020**, 228, 105631	5.1	10
21	Ecology of Pseudodiaptomus annandalei in tropical aquaculture ponds with emphasis on the limitation of production. *Journal of Plankton Research*, **2019**, 41, 741-758	2.2	9
20	Transcriptomic responses to grazing reveal the metabolic pathway leading to the biosynthesis of domoic acid and highlight different defense strategies in diatoms. *BMC Molecular Biology*, **2019**, 20, 7	4.5	8
19	Can domoic acid affect escape response in copepods?. *Harmful Algae*, **2018**, 79, 50-52	5.3	8
18	Impact of temperature and pyrene exposure on the functional response of males and females of the copepod Calanus finmarchicus. *Environmental Science and Pollution Research*, **2019**, 26, 29327-29333	5.1	7

17	Calanus finmarchicusegg production at its northern border. *Journal of Plankton Research*, **2016**, 38, 1206-1214	2.2	7
16	Trophic interactions, toxicokinetics, and detoxification processes in a domoic acid-producing diatom and two copepod species. *Limnology and Oceanography*, **2019**, 64, 833-848	4.8	7
15	Functional biology of sympatric krill species. *Journal of Plankton Research*, **2016**, 38, 575-588	2.2	6
14	Interactive effects of extreme temperature and a widespread coastal metal contaminant reduce the fitness of a common tropical copepod across generations. *Marine Pollution Bulletin*, **2020**, 159, 111509	6.7	6
13	Climate change and oil pollution: A dangerous cocktail for tropical zooplankton. *Aquatic Toxicology*, **2021**, 231, 105718	5.1	6
12	Delayed effects of pyrene exposure during overwintering on the Arctic copepod Calanus hyperboreus. *Aquatic Toxicology*, **2019**, 217, 105332	5.1	5
11	Effect of environmentally relevant concentrations of potentially toxic microplastic on coastal copepods. *Aquatic Toxicology*, **2021**, 230, 105713	5.1	5
10	Gut evacuation rate and grazing impact of the krill Thysanoessa raschii and T. inermis. *Marine Biology*, **2015**, 162, 169-180	2.5	4
9	In situ and experimental evidence for effects of elevated pH on protistan and metazoan grazers. *Journal of Plankton Research*, **2019**, 41, 257-271	2.2	3
8	Effects of oil spill response technologies on marine microorganisms in the high Arctic. *Marine Environmental Research*, **2019**, 151, 104785	3.3	2
7	Copepod carcasses in the subtropical convergence zone of the Sargasso Sea: implications for microbial community composition, system respiration and carbon flux. *Journal of Plankton Research* , **2019**, 41, 549-560	2.2	2
6	Early life characteristics of capelin (Mallotus villosus) in the subarctic-arctic transition zone. *Estuarine, Coastal and Shelf Science*, **2020**, 240, 106787	2.9	2
5	Environmental niche separation promotes coexistence among ecologically similar zooplankton species North Sea copepods as a case study. *Limnology and Oceanography*, **2020**, 65, 545-556	4.8	2
4	The role of egg cannibalism for the Calanus succession in the Disko Bay, Western Greenland. *Limnology and Oceanography*, **2017**, 62, 865-883	4.8	1
3	Succession of picophytoplankton during the spring bloom 2012 in Disko Bay (West Greenland) an unexpectedly low abundance of green algae. *Polar Biology*, **2017**, 40, 463-469	2	0
2	The importance of temperature and lipid accumulation for initiation and duration of Calanus hyperboreus spawning. *Journal of Plankton Research*, **2020**, 42, 159-171	2.2	0
1	Bioaccumulation of metals in the planktonic food web in the Gulf of Guinea.. *Marine Pollution Bulletin*, **2022**, 179, 113662	6.7	0