Torkel Gissel Nielsen

List of Publications by Year in Descending Order

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	Bioaccumulation of metals in the planktonic food web in the Gulf of Guinea.. *Marine Pollution Bulletin*, **2022**, 179, 113662	6.7	0
69	Climate change and oil pollution: A dangerous cocktail for tropical zooplankton. *Aquatic Toxicology*, **2021**, 231, 105718	5.1	6
68	Effect of environmentally relevant concentrations of potentially toxic microplastic on coastal copepods. *Aquatic Toxicology*, **2021**, 230, 105713	5.1	5
67	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
66	Early life characteristics of capelin (Mallotus villosus) in the subarctic-arctic transition zone. *Estuarine, Coastal and Shelf Science*, **2020**, 240, 106787	2.9	2
65	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
64	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
63	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
62	Ingestion and impact of microplastics on arctic Calanus copepods. *Aquatic Toxicology*, **2020**, 228, 105631	5.1	10
61	Quantification of plankton-sized microplastics in a productive coastal Arctic marine ecosystem. *Environmental Pollution*, **2020**, 266, 115248	9.3	19
60	Effects of oil spill response technologies on marine microorganisms in the high Arctic. *Marine Environmental Research*, **2019**, 151, 104785	3.3	2
59	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
58	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
57	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
56	Extreme temperature impairs growth and productivity in a common tropical marine copepod. *Scientific Reports*, **2019**, 9, 4550	4.9	20
55	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
54	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

53	Delayed effects of pyrene exposure during overwintering on the Arctic copepod Calanus hyperboreus. *Aquatic Toxicology*, **2019**, 217, 105332	5.1	5
52	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
51	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
50	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
49	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
48	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
47	Impact of Pyrene Exposure during Overwintering of the Arctic Copepod Calanus glacialis. *Environmental Science & Technology*, **2018**, 52, 10328-10336	10.3	17
46	Can domoic acid affect escape response in copepods?. *Harmful Algae*, **2018**, 79, 50-52	5.3	8
45	Induction of domoic acid production in diatoms-Types of grazers and diatoms are important. *Harmful Algae*, **2018**, 79, 64-73	5.3	35
44	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
43	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
42	Effects of elevated pH on marine copepods in mass cultivation systems: practical implications. *Journal of Plankton Research*, **2017**, 39, 984-993	2.2	13
41	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
40	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
39	Functional biology of sympatric krill species. *Journal of Plankton Research*, **2016**, 38, 575-588	2.2	6
38	The effect ofPseudo-nitzschia seriataon grazing and fecundity ofCalanus finmarchicusandCalanusglacialis. *Journal of Plankton Research*, **2016**, 38, 564-574	2.2	12
37	Calanus finmarchicusegg production at its northern border. *Journal of Plankton Research*, **2016**, 38, 1206-1214	2.2	7
36	Deciphering the structure of the West Greenland marine food web using stable isotopes (13C, 15N). *Marine Biology*, **2016**, 163, 1	2.5	23

35	Plankton community composition and vertical migration during polar night in Kongsfjorden. *Polar Biology*, **2016**, 39, 1879-1895	2	17
34	Early development of Calanus glacialis and C. finmarchicus. *Limnology and Oceanography*, **2015**, 60, 934-946	4.8	13
33	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
32	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
31	Induction of domoic acid production in the toxic diatom Pseudo-nitzschia seriata by calanoid copepods. *Aquatic Toxicology*, **2015**, 159, 52-61	5.1	58
30	Copepod carcasses as microbial hot spots for pelagic denitrification. *Limnology and Oceanography*, **2015**, 60, 2026-2036	4.8	33
29	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
28	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
27	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
26	Gut evacuation rate and grazing impact of the krill Thysanoessa raschii and T. inermis. *Marine Biology*, **2015**, 162, 169-180	2.5	4
25	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
24	Krill diversity and population structure along the sub-Arctic Godthåbsfjord, SW Greenland. *Journal of Plankton Research*, **2014**, 36, 800-815	2.2	13
23	Description of Pyramimonas diskoicola sp. nov. and the importance of the flagellate Pyramimonas (Prasinophyceae) in Greenland sea ice during the winter–spring transition. *Polar Biology*, **2014**, 37, 1479-1494	2	15
22	Live discrimination of Calanus glacialis and C. finmarchicus females: can we trust phenological differences?. *Marine Biology*, **2014**, 161, 1299-1306	2.5	32
21	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
20	Evaluating pyrene toxicity on Arctic key copepod species Calanus hyperboreus. *Ecotoxicology*, **2014**, 23, 163-74	2.9	22
19	Bridging the gap between marine biogeochemical and fisheries sciences; configuring the zooplankton link. *Progress in Oceanography*, **2014**, 129, 176-199	3.8	100
18	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

17	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
16	Effects of pyrene exposure and temperature on early development of two co-existing Arctic copepods. *Ecotoxicology*, **2013**, 22, 184-98	2.9	31
15	Distinct Communities of Free-Living and Copepod-Associated Microorganisms along a Salinity Gradient in GodthÅbsfjord, West Greenland. *Arctic, Antarctic, and Alpine Research*, **2013**, 45, 471-480	1.8	11
14	Early development of Calanus hyperboreus nauplii: Response to a changing ocean. *Limnology and Oceanography*, **2013**, 58, 2109-2121	4.8	23
13	Calanus spp.□Vectors for the biotoxin, domoic acid, in the Arctic marine ecosystem?. *Harmful Algae* , **2012**, 20, 165-174	5.3	29
12	Oceanographic regime shift during 1997 in Disko Bay, Western Greenland. *Limnology and Oceanography*, **2012**, 57, 634-644	4.8	53
11	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
10	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
9	Production and fate of copepod fecal pellets across the Southern Indian Ocean. *Marine Biology*, **2011**, 158, 677-688	2.5	18
8	Oil exposure in a warmer Arctic: potential impacts on key zooplankton species. *Marine Biology*, **2011**, 158, 1339-1347	2.5	38
7	The functional biology and trophic role of krill (Thysanoessa raschii) in a Greenlandic fjord. *Marine Biology*, **2011**, 158, 1387-1402	2.5	22
6	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
5	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
4	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
3	Annual population development and production by small copepods in Disko Bay, western Greenland. *Marine Biology*, **2008**, 155, 63-77	2.5	46
2	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
1	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