Geir Ottersen

List of Publications by Year
in descending order

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74	9,035	76294 40	74108 75
papers	citations	h-index	g-index

76	76	76	9150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ecological Effects of Climate Fluctuations. Science, 2002, 297, 1292-1296.	6.0	1,430
2	An overview of the North Atlantic Oscillation. Geophysical Monograph Series, 2003, , 1-35.	0.1	963
3	Climate and the match or mismatch between predator requirements and resource availability. Climate Research, 2007, 33, 271-283.	0.4	708
4	Review article. Studying climate effects on ecology through the use of climate indices: the North Atlantic Oscillation, El NiÃ±o Southern Oscillation and beyond. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 2087-2096.	1.2	653
5	Ecological effects of the North Atlantic Oscillation. Oecologia, 2001, 128, 1-14.	0.9	649
6	Climate Variability, Fish, and Fisheries. Journal of Climate, 2006, 19, 5009-5030.	1.2	364
7	Changes in spawning stock structure strengthen the link between climate and recruitment in a heavily fished cod (Gadus morhua) stock. Fisheries Oceanography, 2006, 15, 230-243.	0.9	240
8	Ecosystem processes are rarely included in tactical fisheries management. Fish and Fisheries, 2016, 17, 165-175.	2.7	220
9	On the processes linking climate to ecosystem changes. Journal of Marine Systems, 2010, 79, 374-388.	0.9	219
10	Covariability in early growth and year-class strength of Barents Sea cod, haddock, and herring: the environmental link. ICES Journal of Marine Science, 2000, 57, 339-348.	1.2	177
11	Cod and climate: effect of the North Atlantic Oscillation on recruitment in the North Atlantic. Marine Ecology - Progress Series, 2006, 325, 227-241.	0.9	137
12	Climate effects on Barents Sea ecosystem dynamics. ICES Journal of Marine Science, 2012, 69, 1303-1316.	1.2	136
13	the response of marine ecosystems to climate variability associated with the North Atlantic Oscillation. Geophysical Monograph Series, 2003, , 211-234.	0.1	132
14	Productivity in the Barents Sea - Response to Recent Climate Variability. PLoS ONE, 2014, 9, e95273.	1.1	123
15	Major pathways by which climate may force marine fish populations. Journal of Marine Systems, 2010, 79, 343-360.	0.9	120
16	Atlantic climate governs oceanographic and ecological variability in the Barents Sea. Limnology and Oceanography, 2001, 46, 1774-1780.	1.6	112
17	Ambient temperature and distribution of north-east Arctic cod. ICES Journal of Marine Science, 1998, 55, 67-85.	1.2	109
18	Ice-age survival of Atlantic cod: agreement between palaeoecology models and genetics. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 163-173.	1.2	105

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19	The response of freshwater ecosystems to climate variability associated with the North Atlantic Oscillation. Geophysical Monograph Series, 2003, , 263-279.	0.1	102
20	Pressure-based measures of the North Atlantic Oscillation (NAO): A comparison and an assessment of changes in the strength of the NAO and in its influence on surface climate parameters. Geophysical Monograph Series, 2003, , 51-62.	0.1	101
21	Effects of temperature, wind and spawning stock biomass on recruitment of Arcto-Norwegian cod. Fisheries Oceanography, 1995, 4, 278-292.	0.9	93
22	Environmental benefits of leaving offshore infrastructure in the ocean. Frontiers in Ecology and the Environment, 2018, 16, 571-578.	1.9	93
23	The response of terrestrial ecosystems to climate variability associated with the North Atlantic Oscillation. Geophysical Monograph Series, 2003, , 235-262.	0.1	89
24	Shifting dynamic forces in fish stock fluctuations triggered by age truncation?. Global Change Biology, 2011, 17, 3046-3057.	4.2	85
25	Spawning stock and recruitment in North Sea cod shaped by food and climate. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 504-510.	1.2	83
26	Competition among fishermen and fish causes the collapse of Barents Sea capelin. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11679-11684.	3.3	82
27	Food web dynamics affect Northeast Arctic cod recruitment. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 661-669.	1.2	81
28	A review of early life history dynamics of Barents Sea cod (Gadus morhua). ICES Journal of Marine Science, 2014, 71, 2064-2087.	1.2	79
29	Horizontal distribution and overlap of planktivorous fish stocks in the Norwegian Sea during summers 1995â€“2006. Marine Biology Research, 2012, 8, 420-441.	0.3	73
30	DENSITY DEPENDENCE AND DENSITY INDEPENDENCE DURING THE EARLY LIFE STAGES OF FOUR MARINE FISH STOCKS. Ecology, 2007, 88, 625-634.	1.5	71
31	Temporal shifts in recruitment dynamics of North Atlantic fish stocks: effects of spawning stock and temperature. Marine Ecology - Progress Series, 2013, 480, 205-225.	0.9	66
32	Indirect climatic forcing of the Barents Sea capelin: a cohort effect. Marine Ecology - Progress Series, 2004, 273, 229-238.	0.9	66
33	SPATIAL ANATOMY OF SPECIES SURVIVAL: EFFECTS OF PREDATION AND CLIMATE-DRIVEN ENVIRONMENTAL VARIABILITY. Ecology, 2007, 88, 635-646.	1.5	64
34	Growth of North-east Arctic cod (Gadus morhuaL.) in relation to ambient temperature. ICES Journal of Marine Science, 1998, 55, 863-877.	1.2	63
35	Effects of interactions between fish populations on ecosystem dynamics in the Norwegian Sea â€“ results of the INFERNO project. Marine Biology Research, 2012, 8, 415-419.	0.3	59
36	Densityâ€•and sizeâ€dependent mortality in fish early life stages. Fish and Fisheries, 2019, 20, 962-976.	2.7	57

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37	Fish and oil in the LofotenÂ–Barents Sea system: synoptic review of the effect of oil spills on fish populations. Marine Ecology - Progress Series, 2007, 339, 283-299.	0.9	53
38	Pronounced long-term juvenation in the spawning stock of Arcto-Norwegian cod (Gadus morhua) and possible consequences for recruitment. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 523-534.	0.7	51
39	Spatiotemporal statistical analyses reveal predator-driven zooplankton fluctuations in the Barents Sea. Progress in Oceanography, 2014, 120, 243-253.	1.5	50
40	Barents Sea cod (Gadus morhua) diet composition: long-term interannual, seasonal, and ontogenetic patterns. ICES Journal of Marine Science, 2019, 76, 1641-1652.	1.2	44
41	Cod and climate variability in the Barents Sea. Climate Research, 2001, 17, 73-82.	0.4	44
42	Direct and indirect climate forcing in a multi-species marine system. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3411-3420.	1.2	43
43	Contrasting effects of rising temperatures on trophic interactions in marine ecosystems. Scientific Reports, 2019, 9, 15213.	1.6	41
44	Do abiotic mechanisms determine interannual variability in length-at-age of juvenile Arcto-Norwegian cod?. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 57-65.	0.7	39
45	The Norwegian plan for integrated ecosystem-based management of the marine environment in the Norwegian Sea. Marine Policy, 2011, 35, 389-398.	1.5	39
46	Seasonal plankton dynamics along a cross-shelf gradient. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2831-2838.	1.2	38
47	An evaluation of recruitment indices for Arcto-Norwegian cod (Gadus morhua L.). Fisheries Research, 2000, 48, 55-67.	0.9	35
48	LENGTH DYNAMICS IN JUVENILE COASTAL SKAGERRAK COD: EFFECTS OF BIOTIC AND ABIOTIC PROCESSES. Ecology, 2002, 83, 1676-1688.	1.5	35
49	The population dynamics of Northeast Arctic cod (Gadus morhua) through two decades: an analysis based on survey data. Canadian Journal of Fisheries and Aquatic Sciences, 2004, 61, 1747-1755.	0.7	35
50	Climate based multi-year predictions of the Barents Sea cod stock. PLoS ONE, 2018, 13, e0206319.	1.1	33
51	Effect of a fish stock's demographic structure on offspring survival and sensitivity to climate. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1347-1352.	3.3	32
52	Predicting the temperature of the Barents Sea. Fisheries Oceanography, 2000, 9, 121-135.	0.9	31
53	Trophic interactions affecting a key ecosystem component: a multistage analysis of the recruitment of the Barents Sea capelin (Mallotus villosus). Canadian Journal of Fisheries and Aquatic Sciences, 2010, 67, 1363-1375.	0.7	30
54	A combination of hydrodynamical and statistical modelling reveals non-stationary climate effects on fish larvae distributions. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 275-283.	1.2	30

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55	A participatory scenario method to explore the future of marine socialâ€ecological systems. Fish and Fisheries, 2019, 20, 434-451.	2.7	27
56	Recruitment, distribution boundary and habitat temperature of an arctoâ€boreal gadoid in a climatically changing environment: a case study on Northeast Arctic haddock (<scp>M</scp>elanogrammus aeglefinus). Fisheries Oceanography, 2014, 23, 506-520.	0.9	26
57	Multi-proxy reconstructions of the North Atlantic Oscillation (NAO) Index: A critical review and a new well-verified winter NAO index reconstruction back to AD 1400. Geophysical Monograph Series, 2003, , 63-79.	0.1	24
58	Forecasting recruitment and stock biomass of Northeast Arctic cod using neural networks. Scientia Marina, 2003, 67, 325-335.	0.3	24
59	Spatial variations in mortality in pelagic early life stages of a marine fish (Gadus morhua). Progress in Oceanography, 2014, 127, 96-107.	1.5	21
60	Combined statistical and mechanistic modelling suggests food and temperature effects on survival of early life stages of Northeast Arctic cod (Gadus morhua). Progress in Oceanography, 2015, 134, 138-151.	1.5	19
61	Reproductive strategy of a migratory fish stock: implications of spatial variations in natural mortality. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1742-1749.	0.7	17
62	Early Environmental Influences on Growth of Arcto-Norwegian Cod, Gadus Morhua, From The 0-group To Adults. Environmental Biology of Fishes, 2002, 65, 341-348.	0.4	16
63	Skilful prediction of cod stocks in the North and Barents Sea a decade in advance. Communications Earth & Environment, 2021, 2, .	2.6	14
64	Ontogenetic spatial constraints of subâ€arctic marine fish species. Fish and Fisheries, 2022, 23, 342-357.	2.7	14
65	Environmental toxicology: Population modeling of cod larvae shows high sensitivity to loss of zooplankton prey. Marine Pollution Bulletin, 2011, 62, 395-398.	2.3	12
66	A digital temperature atlas for the Norwegian Sea. ICES Journal of Marine Science, 2010, 67, 1525-1537.	1.2	11
67	Diets of the Barents Sea cod (<i>Gadus morhua</i>) from the 1930s to 2018. Earth System Science Data, 2021, 13, 1361-1370.	3.7	11
68	Population dynamics of cod Gadus morhua in the North Sea region: biological density-dependent and climatic density-independent effects. Marine Ecology - Progress Series, 2005, 302, 219-232.	0.9	11
69	Environmental Impactsâ€”Marine Ecosystems. Regional Climate Studies, 2016, , 241-274.	1.2	7
70	Multiâ€decadal variations in spawning ground use in Northeast Arctic haddock (Melanogrammus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	6
71	Combined effects of fishing and oil spills on marine fish: Role of stock demographic structure for offspring overlap with oil. Marine Pollution Bulletin, 2018, 129, 336-342.	2.3	5
72	Long-term interplay between harvest regimes and biophysical conditions may lead to persistent changes in age at sexual maturity of Northeast Arctic cod (Gadus morhua). Canadian Journal of Fisheries and Aquatic Sciences, 2022, 79, 576-586.	0.7	5

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73	Harvested fish stocks in a changing environment. Marine Ecology - Progress Series, 2013, 480, 199-203.	0.9	2
74	Time to look forward to adapt to ocean warming. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18157-18158.	3.3	1