Halvor Knutsen

List of Publications by Year in descending order

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Version: 2024-02-01

99 papers	3,857 citations	109321 35 h-index	149698 56 g-index
104 all docs	104 docs citations	104 times ranked	4320 citing authors

#	Article	IF	Citations
1	Fine-scaled geographical population structuring in a highly mobile marine species: the Atlantic cod. Molecular Ecology, 2003, 12, 385-394.	3.9	316
2	BioTIME: A database of biodiversity time series for the Anthropocene. Global Ecology and Biogeography, 2018, 27, 760-786.	5.8	289
3	Adaptation to Low Salinity Promotes Genomic Divergence in Atlantic Cod (Gadus morhua L.). Genome Biology and Evolution, 2015, 7, 1644-1663.	2.5	167
4	Are low but statistically significant levels of genetic differentiation in marine fishes â€˜biologically meaningfulâ€™? A case study of coastal Atlantic cod. Molecular Ecology, 2011, 20, 768-783.	3.9	164
5	Genome architecture enables local adaptation of Atlantic cod despite high connectivity. Molecular Ecology, 2017, 26, 4452-4466.	3.9	130
6	Three chromosomal rearrangements promote genomic divergence between migratory and stationary ecotypes of Atlantic cod. Scientific Reports, 2016, 6, 23246.	3.3	128
7	â€œIslands of Divergenceâ€•in the Atlantic Cod Genome Represent Polymorphic Chromosomal Rearrangements. Genome Biology and Evolution, 2016, 8, 1012-1022.	2.5	107
8	Lobster and cod benefit from small-scale northern marine protected areas: inference from an empirical beforeâ€“after control-impact study. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122679.	2.6	92
9	Transport of North Sea cod larvae into the Skagerrak coastal populations. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1337-1344.	2.6	86
10	Spatial scale of genetic structuring in coastal cod Gadus morhua and geographic extent of local populations. Marine Ecology - Progress Series, 2007, 343, 229-237.	1.9	80
11	Egg distribution, bottom topography and small-scale cod population structure in a coastal marine system. Marine Ecology - Progress Series, 2007, 333, 249-255.	1.9	80
12	Climate and population density drive changes in cod body size throughout a century on the Norwegian coast. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1961-1966.	7.1	79
13	Temperatureâ€associated habitat selection in a coldâ€water marine fish. Journal of Animal Ecology, 2016, 85, 628-637.	2.8	71
14	Food of anadromous brown trout at sea. Journal of Fish Biology, 2001, 59, 533-543.	1.6	68
15	Disentangling structural genomic and behavioural barriers in a sea of connectivity. Molecular Ecology, 2019, 28, 1394-1411.	3.9	68
16	Ancient DNA reveals the Arctic origin of Viking Age cod from Haithabu, Germany. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9152-9157.	7.1	66
17	Smallâ€scale biocomplexity in coastal Atlantic cod supporting a Darwinian perspective on fisheries management. Evolutionary Applications, 2008, 1, 524-533.	3.1	64
18	Smallâ€scale genetic structure in a marine population in relation to water circulation and egg characteristics. Ecology, 2010, 91, 2918-2930.	3.2	62

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19	Genetic differentiation among populations of the beetle Bolitophagus reticulatus (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.6	60
20	Bathymetric barriers promoting genetic structure in the deepwater demersal fish tusk (Brosme) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.9	54
21	Behavioral responses of Atlantic cod to sea temperature changes. Ecology and Evolution, 2015, 5, 2070-2083.	1.9	52
22	Ecological and genetic impact of Atlantic cod larval drift in the Skagerrak. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1085-1092.	2.6	50
23	Population genetic structure in the North Atlantic Greenland halibut (Reinhardtius) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5 Aquatic Sciences, 2007, 64, 857-866.	1.4	49
24	Population structure in Atlantic cod in the eastern North Sea-Skagerrak-Kattegat: early life stage dispersal and adult migration. BMC Research Notes, 2016, 9, 63.	1.4	49
25	Life-history variation among local populations of Atlantic cod from the Norwegian Skagerrak coast. Journal of Fish Biology, 2004, 64, 1725-1730.	1.6	48
26	Home range and elevated egg densities within an inshore spawning ground of coastal cod. ICES Journal of Marine Science, 2007, 64, 920-928.	2.5	47
27	Stable coexistence of genetically divergent Atlantic cod ecotypes at multiple spatial scales. Evolutionary Applications, 2018, 11, 1527-1539.	3.1	47
28	Marine feeding of anadromous Salmo trutta during winter. Journal of Fish Biology, 2004, 64, 89-99.	1.6	46
29	Phylogeography and demographic history of the deep-sea fish Aphanopus carbo (Lowe, 1839) in the NE Atlantic: Vicariance followed by secondary contact or speciation?. Molecular Phylogenetics and Evolution, 2007, 42, 38-46.	2.7	43
30	Eight decades of sampling reveal a contemporary novel fish assemblage in coastal nursery habitats. Global Change Biology, 2016, 22, 1155-1167.	9.5	42
31	Impact of harvesting cleaner fish for salmonid aquaculture assessed from replicated coastal marine protected areas. Marine Biology Research, 2017, 13, 359-369.	0.7	42
32	Climate Change and Genetic Structure of Leading Edge and Rear End Populations in a Northwards Shifting Marine Fish Species, the Corkwing Wrasse (Symphodus melops). PLoS ONE, 2013, 8, e67492.	2.5	40
33	Conservation, Spillover and Gene Flow within a Network of Northern European Marine Protected Areas. PLoS ONE, 2013, 8, e73388.	2.5	40
34	The Pillars of Hercules as a bathymetric barrier to gene flow promoting isolation in a global deepâ€sea shark (<scp>C</scp>entroscymnus coelolepis). Molecular Ecology, 2015, 24, 6061-6079.	3.9	39
35	Cleaner fish escape salmon farms and hybridize with local wrasse populations. Royal Society Open Science, 2018, 5, 171752.	2.4	39
36	Habitat Discontinuities Separate Genetically Divergent Populations of a Rocky Shore Marine Fish. PLoS ONE, 2016, 11, e0163052.	2.5	39

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37	Habitat effects on population connectivity in a coastal seascape. Marine Ecology - Progress Series, 2014, 511, 153-163.	1.9	39
38	Genetic evidence for mixed origin of recolonized sea trout populations. Heredity, 2001, 87, 207-214.	2.6	36
39	Seasonal variation in marine growth of sea trout, Salmo trutta, in coastal Skagerrak. Ecology of Freshwater Fish, 2006, 15, 446-452.	1.4	36
40	Harvesting changes mating behaviour in European lobster. Evolutionary Applications, 2018, 11, 963-977.	3.1	33
41	Northern refugia and recent expansion in the North Sea: the case of the wrasse Symphodus melops (Linnaeus, 1758). Ecology and Evolution, 2012, 2, 153-164.	1.9	32
42	Activity patterns of wild European lobster Homarus gammarus in coastal marine reserves: implications for future reserve design. Marine Ecology - Progress Series, 2011, 429, 197-207.	1.9	30
43	Genetic diversity within and among Atlantic cod (Gadus morhua) farmed in marine cages: a proofâ€ofâ€concept study for the identification of escapees. Animal Genetics, 2010, 41, 515-522.	1.7	29
44	Male-biased sexual size dimorphism in the nest building corkwing wrasse (Symphodus melops): implications for a size regulated fishery. ICES Journal of Marine Science, 2016, 73, 2586-2594.	2.5	29
45	Harvest Pressure on Coastal Atlantic Cod (Gadus morhua) from Recreational Fishing Relative to Commercial Fishing Assessed from Tag-Recovery Data. PLoS ONE, 2016, 11, e0149595.	2.5	26
46	New perspectives on fish movement: kernel and GAM smoothers applied to a century of tagging data on coastal Atlantic cod. Marine Ecology - Progress Series, 2008, 372, 231-241.	1.9	26
47	Ocean-scale connectivity and life cycle reconstruction in a deep-sea fish. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 1312-1323.	1.4	24
48	Population genetic structure in a deepwater fish Coryphaenoides rupestris: patterns and processes. Marine Ecology - Progress Series, 2012, 460, 233-246.	1.9	24
49	Highly mixed impacts of nearâ€future climate change on stock productivity proxies in the North East Atlantic. Fish and Fisheries, 2022, 23, 601-615.	5.3	24
50	Genetic analysis of goldsinny wrasse reveals evolutionary insights into population connectivity and potential evidence of inadvertent translocation via aquaculture. ICES Journal of Marine Science, 2017, 74, 2135-2147.	2.5	23
51	Stabilizing selection on Atlantic cod supergenes through a millennium of extensive exploitation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	22
52	Demographic history has shaped the strongly differentiated corkwing wrasse populations in Northern Europe. Molecular Ecology, 2020, 29, 160-171.	3.9	20
53	Effects of Large-Scale Releases on the Genetic Structure of Red Sea Bream (Pagrus major, Temminck et) Tj ETQq1 1 0.784314 rgBT /Ov	2.5	19
54	Does population genetic structure support present management regulations of the northern shrimp (Pandalus borealis) in Skagerrak and the North Sea?. ICES Journal of Marine Science, 2015, 72, 863-871.	2.5	19

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55	Can we rely on selected genetic markers for population identification? Evidence from coastal Atlantic cod. Ecology and Evolution, 2018, 8, 12547-12558.	1.9	19
56	Who is fishing on what stock: population-of-origin of individual cod (Gadus morhua) in commercial and recreational fisheries. ICES Journal of Marine Science, 2018, 75, 2153-2162.	2.5	19
57	First measurements of field metabolic rate in wild juvenile fishes show strong thermal sensitivity but variations between sympatric ecotypes. Oikos, 2021, 130, 287-299.	2.7	19
58	Diel vertical migration patterns in juvenile cod from the Skagerrak coast. Marine Ecology - Progress Series, 2010, 405, 29-37.	1.9	19
59	Recruitment signals in juvenile cod surveys depend on thermal growth conditions. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 511-523.	1.4	17
60	Is the ballan wrasse (Labrus bergylta) two species? Genetic analysis reveals within-species divergence associated with plain and spotted morphotype frequencies. Integrative Zoology, 2016, 11, 162-172.	2.6	16
61	Fineâ€scale population dynamics in a marine fish species inferred from dynamic stateâ€space models. Journal of Animal Ecology, 2017, 86, 888-898.	2.8	16
62	Genetic population structure in Greenland halibut (Reinhardtius hippoglossoides) and its relevance to fishery management. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 475-485.	1.4	15
63	Disparate movement behavior and feeding ecology in sympatric ecotypes of Atlantic cod. Ecology and Evolution, 2021, 11, 11477-11490.	1.9	14
64	A continuous genome assembly of the corkwing wrasse (Symphodus melops). Genomics, 2018, 110, 399-403.	2.9	13
65	Temporal variability in offspring quality and individual reproductive output in a broadcast-spawning marine fish. ICES Journal of Marine Science, 2018, 75, 1353-1361.	2.5	13
66	Combining population genomics with demographic analyses highlights habitat patchiness and larval dispersal as determinants of connectivity in coastal fish species. Molecular Ecology, 2022, 31, 2562-2577.	3.9	13
67	Development of twelve novel microsatellite loci in the European lobster (Homarus gammarus). Conservation Genetics Resources, 2010, 2, 233-236.	0.8	12
68	Inferring genetic connectivity in real populations, exemplified by coastal and oceanic Atlantic cod. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4945-4950.	7.1	12
69	Selection on fish personality differs between a noâ€take marine reserve and fished areas. Evolutionary Applications, 2021, 14, 1807-1815.	3.1	12
70	Restoration of Abundance and Dynamics of Coastal Fish and Lobster Within Northern Marine Protected Areas Across Two Decades. Frontiers in Marine Science, 2021, 8, .	2.5	12
71	Genotype Reconstruction of Paternity in European Lobsters (Homarus gammarus). PLoS ONE, 2015, 10, e0139585.	2.5	12
72	Settlement processes induce differences in daily growth rates between two co-existing ecotypes of juvenile cod Gadus morhua. Marine Ecology - Progress Series, 2020, 650, 175-189.	1.9	11

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73	Rapid polymerase chain reactionâ€“restriction fragment length polymorphism method for discrimination of the two Atlantic cryptic deepâ€sea species of scabbardfish. Molecular Ecology Resources, 2009, 9, 528-530.	4.8	10
74	Local cod (Gadus morhua) revealed by egg surveys and population genetic analysis after longstanding depletion on the Swedish Skagerrak coast. ICES Journal of Marine Science, 2019, 76, 418-429.	2.5	10
75	Not that clean: Aquacultureâ€mediated translocation of cleaner fish has led to hybridization on the northern edge of the species' range. Evolutionary Applications, 2021, 14, 1572-1587.	3.1	10
76	Mapping Biological Resources in the Coastal Zone: An Evaluation of Methods in a Pioneering Study from Norway. Ambio, 2010, 39, 148-158.	5.5	9
77	â€œA cleaner breakâ€• Genetic divergence between geographic groups and sympatric phenotypes revealed in ballan wrasse (Labrus bergylta). Ecology and Evolution, 2020, 10, 6120-6135.	1.9	9
78	Potential of a noâ€take marine reserve to protect home ranges of anadromous brown trout (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10	1.9	8
79	Replicated marine protected areas (MPAs) support movement of larger, but not more, European lobsters to neighbouring fished areas. Marine Ecology - Progress Series, 2018, 595, 123-133.	1.9	8
80	Lobster reserves as a management tool in coastal waters: Two decades of experience in Norway. Marine Policy, 2022, 136, 104908.	3.2	8
81	Geographic variation in gene flow from a genetically distinct migratory ecotype drives population genetic structure of coastal Atlantic cod (Gadus morhua L.). Evolutionary Applications, 2022, 15, 1162-1176.	3.1	8
82	Isolation and characterization of nuclear microsatellite loci in the northern shrimp, Pandalus borealis. Conservation Genetics Resources, 2012, 4, 109-112.	0.8	6
83	Isolation and characterization of twenty microsatellite loci for the ballan wrasse, Labrus bergylta. Conservation Genetics Resources, 2014, 6, 425-428.	0.8	6
84	Fineâ€scale population differences in Atlantic cod reproductive success: A potential mechanism for ecological speciation in a marine fish. Ecology and Evolution, 2018, 8, 11634-11644.	1.9	6
85	The role of the Strait of Gibraltar in shaping the genetic structure of the Mediterranean Grenadier, Coryphaenoides mediterraneus, between the Atlantic and Mediterranean Sea. PLoS ONE, 2017, 12, e0174988.	2.5	6
86	Isolation and characterization of microsatellite loci in the deepâ€sea marine fish, the roundnose grenadier (Coryphaenoides rupestris). Molecular Ecology Resources, 2008, 8, 993-995.	4.8	5
87	Development of twelve microsatellite loci in the corkwing wrasse (Symphodus melops). Conservation Genetics Resources, 2009, 1, 433-436.	0.8	5
88	Genetic homogeneity in the deep-sea grenadier Macrourus berglax across the North Atlantic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2018, 132, 60-67.	1.4	5
89	Possible adverse impact of contaminants on Atlantic cod population dynamics in coastal ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191167.	2.6	5
90	Isolation and characterization of microsatellite loci in a marine fish species, the tusk (Brosme) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	1.7	4

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91	Genetic structuring in Atlantic haddock contrasts with current management regimes. ICES Journal of Marine Science, 2021, 78, 1-13.	2.5	4
92	Isolation and characterisation of 11 microsatellite loci in the abyssal carapine grenadier Coryphaenoides carapinus (Actinoperygii, Macrouridae) and cross-amplification in two other deep-sea macrourid species. Conservation Genetics, 2009, 10, 1869-1871.	1.5	3
93	Genetic analyses of ling (Molva molva) in the Northeast Atlantic reveal patterns relevant to stock assessments and management advice. ICES Journal of Marine Science, 2015, 72, 635-641.	2.5	3
94	Demographic responses to protection from harvesting in a long-lived marine species. Biological Conservation, 2021, 257, 109094.	4.1	3
95	Norwegian fjords contain sub-populations of roundnose grenadier Coryphaenoides rupestris, a deep-water fish. Marine Ecology - Progress Series, 2018, 586, 181-192.	1.9	3
96	Local recruitment of Atlantic cod and putative source spawning areas in a coastal seascape. ICES Journal of Marine Science, 2021, 78, 3767-3779.	2.5	3
97	Development of eleven microsatellite loci in the deep-sea black scabbardfish (Aphanopus carbo). Conservation Genetics Resources, 2009, 1, 89-92.	0.8	2
98	Development of 10 microsatellite loci in the ling (Molva molva). Molecular Ecology Resources, 2009, 9, 1401-1403.	4.8	2
99	Response to comments by Cardinale et al. on â€œLocal cod (Gadus morhua) revealed by egg surveys and population genetic analysis after longstanding depletion on the Swedish Skagerrak coastâ€• by SvedÃng et al. (2019). ICES Journal of Marine Science, 2019, 76, 1212-1213.	2.5	0