Olav Sigurd Kjesbu

List of Publications by Year
in descending order

74	3,026	218592	168321
papers	citations	26 h-index	53 g-index

77	77	77	2629
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Is spawner biomass a sensitive measure of the reproductive and recruitment potential of Northeast Arctic cod?. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 1766-1783.	0.7	271
2	Total lipid energy as a proxy for total egg production by fish stocks. Nature, 1999, 402, 288-290.	13.7	268
3	Ecosystem processes are rarely included in tactical fisheries management. Fish and Fisheries, 2016, 17, 165-175.	2.7	220
4	Synergies between climate and management for Atlantic cod fisheries at high latitudes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3478-3483.	3.3	173
5	Growth, gonadal development and spawning time of Atlantic cod (Gadus morhua) reared under different photoperiods. Aquaculture, 2001, 203, 51-67.	1.7	147
6	Effects of periodic starvation on reproductive investment in first-time spawning Atlantic cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.7	125
7	Systematic bias in estimates of reproductive potential of an Atlantic cod (Gadus morhua) stock: implications for stockÂ–recruit theory and management. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 980-994.	0.7	116
8	Thermal dynamics of ovarian maturation in Atlantic cod (Gadus morhua). Canadian Journal of Fisheries and Aquatic Sciences, 2010, 67, 605-625.	0.7	101
9	Effects of population size/age structure, condition and temporal dynamics of spawning on reproductive output in Atlantic cod (Gadus morhua). Ecological Modelling, 2006, 191, 383-415.	1.2	100
10	Frequent skipped spawning in the worldâ€™s largest cod population. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8995-8999.	3.3	90
11	Effects of alkylphenols on the reproductive system of Atlantic cod (Gadus morhua). Aquatic Toxicology, 2007, 81, 207-218.	1.9	84
12	From gametogenesis to spawning: How climateâ€driven warming affects teleost reproductive biology. Journal of Fish Biology, 2020, 97, 607-632.	0.7	67
13	Genomic stability through time despite decades of exploitation in cod on both sides of the Atlantic. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	61
14	Fecundity estimation by oocyte packing density formulae in determinate and indeterminate spawners: Theoretical considerations and applications. Journal of Sea Research, 2009, 61, 188-196.	0.6	54
15	Timing and determination of potential fecundity in Atlantic cod (Gadus morhua). Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 310-320.	0.7	53
16	Mechanisms regulating oocyte recruitment and skipped spawning in Northeast Arctic cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	53
17	Fecundity, atresia, and spawning strategies of Atlantic herring (Clupea harengus). Canadian Journal of Fisheries and Aquatic Sciences, 2009, 66, 2130-2141.	0.7	52
18	Fecundity and growth of Atlantic cod (Gadus morhua L.) along a latitudinal gradient. Fisheries Research, 2010, 104, 45-55.	0.9	49

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19	A simple method for determining the maturity stages of Northeast Arctic cod (Gadus morhuaL.) byin vitroexamination of oocytes. Sarsia, 1991, 75, 335-338.	0.5	45
20	The North Atlantic Spring-Bloom Systemâ€"Where the Changing Climate Meets the Winter Dark. Frontiers in Marine Science, 2016, 3, .	1.2	45
21	How are the oocytes recruited in an indeterminate fish? Applications of stereological techniques along with advanced packing density theory on European hake (Merluccius merluccius L.). Fisheries Research, 2010, 104, 56-63.	0.9	43
22	Do capital breeders like Atlantic herring (Clupea harengus) exhibit sensitive periods of nutritional control on ovary development and fecundity regulation?. Canadian Journal of Fisheries and Aquatic Sciences, 2010, 67, 16-27.	0.7	42
23	Gadoid mariculture: development and future challenges. ICES Journal of Marine Science, 2006, 63, 187-191.	1.2	40
24	Association between Growth andPan I*Genotype within Atlantic Cod Full-Sibling Families. Transactions of the American Fisheries Society, 2006, 135, 241-250.	0.6	33
25	The fate of vitellogenic follicles in experimentally monitored Atlantic cod Gadus morhua (L.): Application to stock assessment. Fisheries Research, 2010, 104, 27-37.	0.9	33
26	Dynamics of de novo vitellogenesis in fish with indeterminate fecundity: an application of oocyte packing density theory to European anchovy, Engraulis encrasicolus. Marine Biology, 2012, 159, 757-768.	0.7	33
27	Oogenesis and reproductive investment of Atlantic herring are functions of not only present but long-ago environmental influences as well. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2634-2639.	3.3	32
28	Greenland halibut (Reinhardtius hippoglossoides) spawn annually but successive cohorts of oocytes develop over 2 years, complicating correct assessment of maturity. Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 201-209.	0.7	29
29	New insights in oocyte dynamics shed light on the complexities associated with fish reproductive strategies. Scientific Reports, 2019, 9, 18411.	1.6	28
30	Stereological calibration of the profile method to quickly estimate atresia levels in fish. Fisheries Research, 2010, 104, 8-18.	0.9	25
31	Connecting the Seas of Norden. Nature Climate Change, 2015, 5, 89-92.	8.1	25
32	Highly mixed impacts of nearâ€€future climate change on stock productivity proxies in the North East Atlantic. Fish and Fisheries, 2022, 23, 601-615.	2.7	24
33	Quantification of Primary and Secondary Oocyte Production in Atlantic Cod by Simple Oocyte Packing Density Theory. Marine and Coastal Fisheries, 2011, 3, 92-105.	0.6	23
34	Management of transboundary and straddling fish stocks in the Northeast Atlantic in view of climateâ€€induced shifts in spatial distribution. Fish and Fisheries, 2020, 21, 1008-1026.	2.7	23
35	Investment in maturity-at-age and -length in northeast Atlantic cod stocks. Fisheries Research, 2010, 104, 89-99.	0.9	22
36	The role of fecundity regulation and abortive maturation in the reproductive strategy of Norwegian spring-spawning herring (Clupea harengus). Marine Biology, 2011, 158, 1287-1299.	0.7	22

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37	Oocyte development in captive Atlantic horse mackerel Trachurus trachurus. ICES Journal of Marine Science, 2009, 66, 623-630.	1.2	20
38	Strategies for partition between body growth and reproductive investment in migratory and stationary populations of spring-spawning Atlantic herring (Clupea harengus L.). Fisheries Research, 2013, 138, 71-79.	0.9	20
39	Size-, energy- and stage-dependent fecundity and the occurrence of atresia in the Northeast Arctic haddock Melanogrammus aeglefinus. Fisheries Research, 2013, 138, 120-127.	0.9	19
40	Experimental Parameterisation of Principal Physics in Buoyancy Variations of Marine Teleost Eggs. PLoS ONE, 2014, 9, e104089.	1.1	18
41	Making use of Johan Hjort's â€œunknownâ€•legacy: reconstruction of a 150-year coastal time-series on northeast Arctic cod (Gadus morhua) liver data reveals long-term trends in energy allocation patterns. ICES Journal of Marine Science, 2014, 71, 2053-2063.	1.2	17
42	Environmental influences on Norwegian spring-spawning herring (Clupea harengusL.) larvae reveal recent constraints in recruitment success. ICES Journal of Marine Science, 2021, 78, 640-652.	1.2	16
43	Emergence of an oocytic circumnuclear ring in response to increasing day length in Atlantic herring (Clupea harengus). Marine Biology, 2012, 159, 341-353.	0.7	15
44	Quantitative molecular detection of larval Atlantic herring (Clupea harengus) in stomach contents of Atlantic mackerel (Scomber scombrus) marks regions of predation pressure. Scientific Reports, 2021, 11, 5095.	1.6	15
45	Stereological comparison of oocyte recruitment and batch fecundity estimates from paraffin and resin sections using spawning albacore (Thunnus alalunga) ovaries as a case study. Journal of Sea Research, 2015, 95, 226-238.	0.6	14
46	Preferential amplification of repetitive DNA during whole genome sequencing library creation from historic samples. Science and Technology of Archaeological Research, 2016, 2, 36-45.	2.4	14
47	Rebuilding depleted fish stocks: biology, ecology, social science, and management strategies. ICES Journal of Marine Science, 2010, 67, 1825-1829.	1.2	12
48	Long-term changes in the total egg production of Norwegian spring-spawning herring Clupea harengus (L.)â€”Implications of variations in population structure and condition factor. Fisheries Research, 2010, 104, 19-26.	0.9	12
49	Sperm motility in European hake, Merluccius merluccius, and characterization of its spermatozoa concentration and volume, spermatocrit, osmolality and pH. Aquaculture, 2010, 301, 31-36.	1.7	12
50	Sexual dimorphism of drumming muscles in European hake (Merluccius merluccius). Environmental Biology of Fishes, 2011, 91, 7-13.	0.4	12
51	Variation in growth, morphology and reproduction of the bearded goby (Sufflogobius bibarbatus) in varying oxygen environments of northern Benguela. Journal of Marine Systems, 2018, 188, 81-97.	0.9	12
52	Bioenergetics of egg production in Northeast Atlantic mackerel changes the perception of fecundity type and annual trends in spawning stock biomass. Progress in Oceanography, 2021, 198, 102658.	1.5	11
53	Contrasting development and delivery of realised fecundity in Atlantic cod (Gadus morhua) stocks from cold and warm waters. Fisheries Research, 2013, 138, 128-138.	0.9	10
54	Otolith growth and zone formation during first maturity and spawning of Atlantic cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	10

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55	Development of a new â€˜ultrametricâ€™ method for assessing spawning progression in female teleost serial spawners. Scientific Reports, 2020, 10, 9677.	1.6	10
56	Evaluation of the frequency of skipped spawning in Norwegian spring-spawning herring. Journal of Sea Research, 2011, 65, 327-332.	0.6	9
57	Environmental stressors may cause unpredicted, notably lagged life-history responses in adults of the planktivorous Atlantic herring. Progress in Oceanography, 2020, 181, 102257.	1.5	9
58	First thorough assessment of de novo oocyte recruitment in a teleost serial spawner, the Northeast Atlantic mackerel (Scomber scombrus) case. Scientific Reports, 2021, 11, 21795.	1.6	9
59	Recent advances in statistical methodology applied to the Hjort liver index time series (1859â€“2012) and associated influential factors. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 279-295.	0.7	8
60	Adult body growth and reproductive investment vary markedly within and across Atlantic and Pacific herring: a meta-analysis and review of 26 stocks. Reviews in Fish Biology and Fisheries, 2021, 31, 685-708.	2.4	8
61	A simulation framework for evaluating fisheries management decisions using environmental information. ICES Journal of Marine Science, 2013, 70, 743-754.	1.2	7
62	Contrasting batch fecundity estimates of albacore (Thunnus alalunga), an indeterminate spawner, by different laboratory techniques. Fisheries Research, 2016, 176, 76-85.	0.9	7
63	Ontogenetic development of otolith shape during settlement of juvenile Barents Sea cod (Gadus) Tj ETQq1 1 0.784314 rgBT /Overloc	1.2	7
64	Temperature and age effects on latitudinal growth dynamics of the commercially valuable gadoid Northeast Arctic saithe (Pollachius virens). Fisheries Research, 2019, 213, 94-104.	0.9	6
65	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
66	Increasing temperature and prey availability affect the growth and swimming kinematics of Atlantic herring (Clupea harengus) larvae. Journal of Plankton Research, 0, , .	0.8	5
67	Is it possible to photoperiod manipulate spawning time in planktivorous fish? A long-term experiment on Atlantic herring. Journal of Experimental Marine Biology and Ecology, 2022, 552, 151737.	0.7	5
68	Efecto de la raciÃ³n alimenticia sobre la maduraciÃ³n gonadal y acumulaciÃ³n de grasa de anchoveta peruana (Engraulis ringens Jenyns, 1842) en cautiverio. Latin American Journal of Aquatic Research, 2009, 37, 181-190.	0.2	2
69	Johan Hjort Symposium on Recruitment Dynamics and Stock Variability. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, vii-xi.	0.7	2
70	The legacy of Johan Hjort: challenges and critical periodsâ€”past, present, and future. ICES Journal of Marine Science, 2021, 78, 621-630.	1.2	2
71	Tracking oocyte development and the timing of skipped spawning for northâ€east Arctic haddock (<scp>Melanogrammus aeglefinus</scp>). Journal of Fish Biology, 2022, 100, 1464-1474.	0.7	2
72	Drift Indices Confirm That Rapid Larval Displacement Is Essential for Recruitment Success in High-Latitude Oceans. Frontiers in Marine Science, 2021, 8, .	1.2	1

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73	Linking the dynamic organization of the ovary with spawning dynamics in pelagic fishes. Marine Biology, 2022, 169, 1.	0.7	1
74	Contrasting post-ovulatory follicle production in fishes with different spawning dynamics. Fisheries Research, 2020, 231, 105710.	0.9	0