

# Årjan Karlsen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/383477/publications.pdf>

Version: 2024-02-01

102  
papers

4,333  
citations

101496

36  
h-index

123376

61  
g-index

106  
all docs

106  
docs citations

106  
times ranked

3571  
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of puberty in farmed fish. <i>General and Comparative Endocrinology</i> , 2010, 165, 483-515.	0.8	537
2	Risk assessment of the environmental impact of Norwegian Atlantic salmon farming. <i>ICES Journal of Marine Science</i> , 2015, 72, 997-1021.	1.2	299
3	Total replacement of fish meal with plant proteins in diets for Atlantic cod ( <i>Gadus morhua</i> L.) I " Effects on growth and protein retention. <i>Aquaculture</i> , 2007, 272, 599-611.	1.7	177
4	Growth, gonadal development and spawning time of Atlantic cod ( <i>Gadus morhua</i> ) reared under different photoperiods. <i>Aquaculture</i> , 2001, 203, 51-67.	1.7	147
5	Effects of periodic starvation on reproductive investment in first-time spawning Atlantic cod ( <i>Gadus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 1.7 125	1.7	125
6	Gonadal development and associated changes in liver size and sexual steroids during the reproductive cycle of captive male and female Atlantic cod ( <i>Gadus morhua</i> L.). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2003, 136, 641-653.	0.8	115
7	Crude oil exposures reveal roles for intracellular calcium cycling in haddock craniofacial and cardiac development. <i>Scientific Reports</i> , 2016, 6, 31058.	1.6	94
8	Unexpected Interaction with Dispersed Crude Oil Droplets Drives Severe Toxicity in Atlantic Haddock Embryos. <i>PLoS ONE</i> , 2015, 10, e0124376.	1.1	85
9	Oil droplet fouling and differential toxicokinetics of polycyclic aromatic hydrocarbons in embryos of Atlantic haddock and cod. <i>PLoS ONE</i> , 2017, 12, e0180048.	1.1	84
10	Effect of feed composition and feeding frequency on growth, feed utilization and nutrient retention in juvenile Atlantic cod, <i>Gadus morhua</i> L.. <i>Aquaculture Nutrition</i> , 2004, 10, 371-378.	1.1	83
11	Total replacement of fish meal with plant proteins in diets for Atlantic cod ( <i>Gadus morhua</i> L.) II " Health aspects. <i>Aquaculture</i> , 2007, 272, 612-624.	1.7	83
12	The effects of stress and storage temperature on the colour and texture of pre-rigor filleted farmed cod ( <i>Gadus morhua</i> L.). <i>Aquaculture Research</i> , 2005, 36, 1197-1206.	0.9	80
13	Effects of photoperiod on sexual maturation and somatic growth in male Atlantic halibut ( <i>Hippoglossus hippoglossus</i> L.). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001, 129, 357-365.	0.7	79
14	Spermatogenesis and related plasma androgen levels in Atlantic halibut ( <i>Hippoglossus hippoglossus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0.8 76	0.8	76
15	Disentangling the role of sea lice on the marine survival of Atlantic salmon. <i>ICES Journal of Marine Science</i> , 2018, 75, 50-60.	1.2	73
16	Effects of photoperiod and exercise on growth, liver size, and age at puberty in farmed Atlantic cod ( <i>Gadus morhua</i> L.). <i>ICES Journal of Marine Science</i> , 2006, 63, 355-364.	1.2	71
17	The acute stress response in fed and food deprived Atlantic cod, <i>Gadus morhua</i> L.. <i>Aquaculture</i> , 2008, 280, 232-241.	1.7	70
18	Extreme spawning-site fidelity in Atlantic cod. <i>ICES Journal of Marine Science</i> , 2011, 68, 1472-1477.	1.2	69

#	ARTICLE	IF	CITATIONS
19	Copepods enhance nutritional status, growth and development in Atlantic cod ( <i>Gadus morhua</i> ). <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 366, 10-19.	0.9	66
20	Precision and accuracy of stable isotope signals in otoliths of pen-reared cod ( <i>Gadus morhua</i> ) when sampled with a high-resolution micromill. <i>Marine Biology</i> , 2004, 144, 1039-1049.	0.7	61
21	Element concentrations in meals from krill and amphipods, possible alternative protein sources in complete diets for farmed fish. <i>Aquaculture</i> , 2006, 261, 174-181.	1.7	60
22	Evaluation of a national operational salmon lice monitoring system: From physics to fish. <i>PLoS ONE</i> , 2018, 13, e0201338.	1.1	60
23	The effect of dietary chitin on growth and nutrient digestibility in farmed Atlantic cod, Atlantic salmon and Atlantic halibut. <i>Aquaculture Research</i> , 2017, 48, 123-133.	0.9	59
24	The inclusion of plant protein in cod diets, its effects on macronutrient digestibility, gut and liver histology and heat shock protein transcription. <i>Aquaculture Research</i> , 2006, 37, 773-784.	0.9	56
25	Impacts of wild fishes attracted to open-cage salmonid farms in Norway. <i>Aquaculture Environment Interactions</i> , 2014, 6, 91-103.	0.7	55
26	Effect of sustained exercise on white muscle structure and flesh quality in farmed cod ( <i>Gadus morhua</i> ). <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 366, 50-62.	0.9	51
27	The effect of dietary chitin on the autochthonous gut bacteria of Atlantic cod ( <i>Gadus morhua</i> ). <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 366, 51-60.	0.9	51
28	Sea trout adapt their migratory behaviour in response to high salmon lice concentrations. <i>Journal of Fish Diseases</i> , 2018, 41, 953-967.	0.9	45
29	Effect of season, light regime and diet on muscle composition and selected quality parameters in farmed Atlantic cod, <i>Gadus morhua</i> L.. <i>Aquaculture Research</i> , 2004, 35, 683-697.	0.9	43
30	Fluorine accumulation in Atlantic salmon ( <i>Salmo salar</i> ), Atlantic cod ( <i>Gadus morhua</i> ), rainbow trout ( <i>Oncorhynchus mykiss</i> ) and Atlantic halibut ( <i>Hippoglossus hippoglossus</i> ) fed diets with krill or amphipod meals and fish meal based diets with sodium fluoride (NaF) inclusion. <i>Aquaculture</i> , 2007, 269, 525-531.	1.7	43
31	Digestibility of dry matter, protein, starch and lipid by cod, <i>Gadus morhua</i> : comparison of sampling methods. <i>Aquaculture</i> , 2003, 225, 225-232.	1.7	42
32	Dietary plant protein utilization in Atlantic cod, <i>Gadus morhua</i> L.. <i>Aquaculture Nutrition</i> , 2007, 13, 200-215.	1.1	41
33	RADSex: A computational workflow to study sex determination using restriction site-associated DNA sequencing data. <i>Molecular Ecology Resources</i> , 2021, 21, 1715-1731.	2.2	40
34			

#	ARTICLE	IF	CITATIONS
37	Sperm characteristics and competitive ability in farmed and wild cod. <i>Marine Ecology - Progress Series</i> , 2009, 375, 219-228.	0.9	38
38	Vertical dynamics and reproductive behaviour of farmed and wild Atlantic cod <i>Gadus morhua</i> . <i>Marine Ecology - Progress Series</i> , 2009, 389, 233-243.	0.9	38
39	Copepod production in a saltwater pond system: A reliable method for achievement of natural prey in start-feeding of marine fish larvae. <i>Aquacultural Engineering</i> , 2014, 62, 17-27.	1.4	36
40	Hydroacoustic monitoring of fish in sea cages: target strength (TS) measurements on Atlantic salmon ( <i>Salmo salar</i> ). <i>Fisheries Research</i> , 2004, 69, 205-209.	0.9	34
41	Salmon lice-induced mortality of Atlantic salmon during post-smolt migration in Norway. <i>ICES Journal of Marine Science</i> , 2021, 78, 142-154.	1.2	33
42	Effect of varying levels of macro-nutrients and continuous light on growth, energy deposits and maturation in farmed Atlantic cod ( <i>Gadus morhua</i> L.). <i>Aquaculture</i> , 2006, 255, 242-254.	1.7	32
43	Title is missing!. <i>Fish Physiology and Biochemistry</i> , 2000, 23, 191-200.	0.9	31
44	Energy dilution with $\beta$ -cellulose in diets for Atlantic cod ( <i>Gadus morhua</i> L.) juveniles – Effects on growth, feed intake, liver size and digestibility of nutrients. <i>Aquaculture</i> , 2010, 300, 169-175.	1.7	30
45	Untangling mechanisms of crude oil toxicity: Linking gene expression, morphology and PAHs at two developmental stages in a cold-water fish. <i>Science of the Total Environment</i> , 2021, 757, 143896.	3.9	30
46	Farmed salmonids drive the abundance, ecology and evolution of parasitic salmon lice in Norway. <i>Aquaculture Environment Interactions</i> , 0, , .	0.7	30
47	Impacts of salmon lice on mortality, marine migration distance and premature return in sea trout. <i>Marine Ecology - Progress Series</i> , 2020, 635, 151-168.	0.9	29
48	Quantification of gonadotropin subunits $GPI\pm$ , $FSH\hat{I}^2$ , and $LH\hat{I}^2$ mRNA expression from Atlantic cod ( <i>Gadus</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock and Molecular Biology</i> , 2009, 153, 288-295.	0.7	27
49	Effects of laboratory salmon louse infection on osmoregulation, growth and survival in Atlantic salmon. , 2020, 8, coaa023.		27
50	Photoperiod-Modulated Testis Maturation in Atlantic Cod ( <i>Gadus morhua</i> , L.)1. <i>Biology of Reproduction</i> , 2009, 80, 631-640.	1.2	26
51	Cortisol treatment of prespawning female cod affects cytogenesis related factors in eggs and embryos. <i>General and Comparative Endocrinology</i> , 2013, 189, 84-95.	0.8	26
52	An automatic counting system for transparent pelagic fish eggs based on computer vision. <i>Aquacultural Engineering</i> , 2015, 67, 8-13.	1.4	26
53	Timing is everything: Survival of Atlantic salmon <i>Salmo salar</i> postsmolts during events of high salmon lice densities. <i>Journal of Applied Ecology</i> , 2020, 57, 1149-1160.	1.9	24
54	Pituitary gonadotropin and testicular gonadotropin receptor expression in Atlantic cod ( <i>Gadus</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Comparative Endocrinology</i> , 2011, 173, 111-119.	0.8	22

#	ARTICLE	IF	CITATIONS
55	The effect of triploidization of Atlantic cod ( <i>Gadus morhua</i> L.) on survival, growth and deformities during early life stages. <i>Aquaculture</i> , 2013, 388-391, 54-59.	1.7	22
56	First feed affects the expressions of microRNA and their targets in Atlantic cod. <i>British Journal of Nutrition</i> , 2016, 115, 1145-1154.	1.2	22
57	Migration of Atlantic salmon post-smolts in a fjord with high infestation pressure of salmon lice. <i>Marine Ecology - Progress Series</i> , 2018, 592, 243-256.	0.9	21
58	Effects of laboratory salmon louse infection on Arctic char osmoregulation, growth and survival. , 2019, 7, coz072.		20
59	Offshore Crude Oil Disrupts Retinoid Signaling and Eye Development in Larval Atlantic Haddock. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	20
60	Mating competition between farmed and wild cod <i>Gadus morhua</i> . <i>Marine Ecology - Progress Series</i> , 2010, 412, 247-258.	0.9	20
61	Effect of Antarctic krillmeal on quality of farmed Atlantic cod ( <i>Gadus morhua</i> L.). <i>Aquaculture Research</i> , 2006, 37, 1676-1684.	0.9	19
62	Quality of wild-captured saithe ( <i>Pollachius virens</i> L.) fed formulated diets for 8 months. <i>Aquaculture Research</i> , 2009, 40, 1310-1319.	0.9	19
63	Diet affects the redox system in developing Atlantic cod ( <i>Gadus morhua</i> ) larvae. <i>Redox Biology</i> , 2015, 5, 308-318.	3.9	19
64	The Ontogeny and Brain Distribution Dynamics of the Appetite Regulators NPY, CART and pOX in Larval Atlantic Cod ( <i>Gadus morhua</i> L.). <i>PLoS ONE</i> , 2016, 11, e0153743.	1.1	19
65	Airgun blasts used in marine seismic surveys have limited effects on mortality, and no sublethal effects on behaviour or gene expression, in the copepod <i>Calanus finmarchicus</i> . <i>ICES Journal of Marine Science</i> , 2019, 76, 2033-2044.	1.2	18
66	Do plant-based diets for Atlantic cod ( <i>Gadus morhua</i> L.) need additions of crystalline lysine or methionine?. <i>Aquaculture Nutrition</i> , 2011, 17, e362-e371.	1.1	17
67	DNA damage and health effects in juvenile haddock ( <i>Melanogrammus aeglefinus</i> ) exposed to PAHs associated with oil-polluted sediment or produced water. <i>PLoS ONE</i> , 2020, 15, e0240307.	1.1	16
68	The effect of dietary lipid content and stress on egg quality in farmed Atlantic cod <i>Gadus morhua</i> . <i>Journal of Fish Biology</i> , 2012, 81, 1391-1405.	0.7	14
69	<sup>1</sup> H NMR metabolic profiling of cod ( <i>Gadus morhua</i> ) larvae: potential effects of temperature and diet composition during early developmental stages. <i>Biology Open</i> , 2015, 4, 1671-1678.	0.6	14
70	The two-step development of a duplex retina involves distinct events of cone and rod neurogenesis and differentiation. <i>Developmental Biology</i> , 2016, 416, 389-401.	0.9	14
71	Performance of triploid Atlantic cod ( <i>Gadus morhua</i> L.) in commercial aquaculture. <i>Aquaculture</i> , 2016, 464, 699-709.	1.7	14
72	The effect of light and dark rearing on the development of the eyes of atlantic halibut( <i>Hippoglossus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10	0.4	13

#	ARTICLE	IF	CITATIONS
73	A correlation between phototactic response and first-feeding of Atlantic halibut ( <i>Hippoglossus</i> ) Tj ETQq1 1 0.784314.rgBT /Overlock 10	0.9	13
74	Growth patterns and plasma levels of testosterone, 11-ketotestosterone, and IGF-1 in male Atlantic halibut ( <i>Hippoglossus hippoglossus</i> ) from juvenile stages throughout sexual development. <i>Fish Physiology and Biochemistry</i> , 2003, 28, 227-228.	0.9	12
75	Induction of meiotic gynogenesis in Atlantic cod, <i>Gadus morhua</i> (L.). <i>Journal of Applied Ichthyology</i> , 2011, 27, 1298-1302.	0.3	12
76	The effect of light on activity and growth of Atlantic halibut, <i>Hippoglossus hippoglossus</i> L., yolk-sac larvae. <i>Aquaculture Research</i> , 1998, 29, 899-911.	0.9	11
77	The expression of secondary sexual characteristics in recruit- and repeat-spawning farmed and wild Atlantic cod ( <i>Gadus morhua</i> ). <i>ICES Journal of Marine Science</i> , 2008, 65, 1710-1716.	1.2	11
78	Inferring Atlantic salmon post-smolt migration patterns using genetic assignment. <i>Royal Society Open Science</i> , 2019, 6, 190426.	1.1	11
79	The development of a sustainability assessment indicator and its response to management changes as derived from salmon lice dispersal modelling. <i>ICES Journal of Marine Science</i> , 2021, 78, 1781-1792.	1.2	11
80	Environmental regulation of individual depth on a cod spawning ground. <i>Aquatic Biology</i> , 2012, 17, 211-221.	0.5	11
81	Salmon louse infestation levels on sea trout can be predicted from a hydrodynamic lice dispersal model. <i>Journal of Applied Ecology</i> , 2022, 59, 704-714.	1.9	11
82	Salmon lice infestations on sea trout predicts infestations on migrating salmon post-smolts. <i>ICES Journal of Marine Science</i> , 2017, 74, 2354-2363.	1.2	10
83	Towards direct evidence of the effects of salmon lice ( <i>Lepeophtheirus salmonis</i> KrÅyer) on sea trout ( <i>Salmo trutta</i> L.) in their natural habitat: proof of concept for a new combination of methods. <i>Environmental Biology of Fishes</i> , 2018, 101, 1677-1692.	0.4	9
84	Towards cod without spawning: artificial continuous light in submerged sea-cages maintains growth and delays sexual maturation for farmed Atlantic cod <i>Gadus morhua</i> . <i>Aquaculture Environment Interactions</i> , 2013, 3, 245-255.	0.7	9
85	Limited evidence for differential reproductive fitness of wild Atlantic cod in areas of high and low salmon farming density. <i>Aquaculture Environment Interactions</i> , 2018, 10, 369-383.	0.7	9
86	Development of a risk assessment method for sea trout in coastal areas exploited for aquaculture. <i>Aquaculture Environment Interactions</i> , 2021, 13, 133-144.	0.7	8
87	Comparison of growth rate among different protein genotypes in Atlantic cod, <i>Gadus morhua</i> , under farmed conditions. <i>ICES Journal of Marine Science</i> , 2006, 63, 235-245.	1.2	7
88	Effect of diet and season on quality of farmed Atlantic cod ( <i>Gadus morhua</i> L.). <i>LWT - Food Science and Technology</i> , 2007, 40, 1623-1629.	2.5	7
89	Vertical distribution and sexual maturation in cage-farming of Atlantic cod ( <i>Gadus morhua</i> L.) exposed to natural or continuous light. <i>Aquaculture Research</i> , 2013, 44, 903-917.	0.9	7
90	Impact of salmon farming on Atlantic cod spatio-temporal reproductive dynamics. <i>Aquaculture Environment Interactions</i> , 2021, 13, 399-412.	0.7	7

#	ARTICLE	IF	CITATIONS
91	Effects of laboratory salmon louse infection on mortality, growth, and sexual maturation in Atlantic salmon. ICES Journal of Marine Science, 2022, 79, 1530-1538.	1.2	7
92	Effects of light regime on diurnal plasma melatonin levels and vertical distribution in farmed Atlantic cod ( <i>Gadus morhua</i> L.). Aquaculture, 2013, 414-415, 280-287.	1.7	6
93	Continuous light affects onset of puberty and associated changes in pituitary gonadotropin subunit transcript levels, and plasma estradiol-17 $\beta$ and testosterone levels in Atlantic cod ( <i>Gadus morhua</i> L.) females. Aquaculture, 2014, 424-425, 95-103.	1.7	6
94	Ossification of Atlantic cod ( <i>Gadus morhua</i> ) – Developmental stages revisited. Aquaculture, 2017, 468, 524-533.	1.7	6
95	Temperature and age effects on latitudinal growth dynamics of the commercially valuable gadoid Northeast Arctic saithe ( <i>Pollachius virens</i> ). Fisheries Research, 2019, 213, 94-104.	0.9	6
96	Marine ash-products influence growth and feed utilization when Atlantic cod <i>Gadus morhua</i> L. are fed plant-based diets. Journal of Applied Ichthyology, 2013, 29, 532-540.	0.3	5
97	Timecourse of oocyte development in saithe <i>Pollachius virens</i> . Journal of Fish Biology, 2017, 90, 109-128.	0.7	5
98	Ontogeny-Specific Skeletal Deformities in Atlantic Haddock Caused by Larval Oil Exposure. Frontiers in Marine Science, 2021, 8, .	1.2	4
99	Growth of wild and domesticated Atlantic cod <i>Gadus morhua</i> reared under semi-commercial conditions. Aquaculture Environment Interactions, 2018, 10, 187-200.	0.7	4
100	Long-term studies on genetic interaction between wild and ranched cod <i>Gadus morhua</i> by use of a genetic marked strain. Journal of Fish Biology, 2004, 65, 318-319.	0.7	1
101	Fertility of gynogenetic Atlantic cod ( <i>Gadus morhua</i> L.). Journal of Applied Ichthyology, 2013, 29, 1292-1296.	0.3	1
102	Reply to Jansen and Gjerde's (2021) critique of the salmon louse infection model reported in Johnsen et al. (2021). ICES Journal of Marine Science, 0, , .	1.2	1