Catriona Clemmesen

List of Publications by Year
in descending order

80 papers	2,947 citations	159358 30 h-index	182168 51 g-index
83 all docs	83 docs citations	83 times ranked	2315 citing authors

#	Article	IF	Citations
1	Severe tissue damage in Atlantic cod larvae under increasing ocean acidification. Nature Climate Change, 2012, 2, 42-46.	8.1	231
2	The effect of food availability, age or size on the RNA/DNA ratio of individually measured herring larvae: laboratory calibration. Marine Biology, 1994, 118, 377-382.	0.7	201
3	Nutrient limitation of primary producers affects planktivorous fish condition. Limnology and Oceanography, 2007, 52, 2062-2071.	1.6	137
4	Intercalibration of four spectrofluorometric protocols for measuring RNA/DNA ratios in larval and juvenile fish. Limnology and Oceanography: Methods, 2006, 4, 153-163.	1.0	119
5	Improvements in the fluorimetric determination of the RNA and DNA content of individual marine fish larvae. Marine Ecology - Progress Series, 1993, 100, 177-183.	0.9	114
6	Effect of ocean acidification on early life stages of Atlantic herring (<i>Clupea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	1.3	113
7	Ocean Acidification Effects on Atlantic Cod Larval Survival and Recruitment to the Fished Population. PLoS ONE, 2016, 11, e0155448.	1.1	104
8	Egg and early larval stages of Baltic cod, Gadus morhua, are robust to high levels of ocean acidification. Marine Biology, 2013, 160, 1825-1834.	0.7	98
9	Multi-species larval fish growth model based on temperature and fluorometrically derived RNA/DNA ratios: results from a meta-analysis. Marine Ecology - Progress Series, 2008, 371, 221-232.	0.9	80
10	Organ damage in Atlantic herring larvae as a result of ocean acidification. Ecological Applications, 2014, 24, 1131-1143.	1.8	77
11	Within- and transgenerational effects of ocean acidification on life history of marine three-spined stickleback (Gasterosteus aculeatus). Marine Biology, 2014, 161, 1667-1676.	0.7	69
12	Temperature effects on growth and nucleic acids in laboratory-reared larval coregonid fish. Marine Ecology - Progress Series, 2003, 259, 285-293.	0.9	59
13	Baltic sprat larvae: coupling food availability, larval condition and survival. Marine Ecology - Progress Series, 2006, 308, 243-254.	0.9	57
14	The swimming kinematics of larval Atlantic cod, Gadus morhua L., are resilient to elevated seawater pCO2. Marine Biology, 2013, 160, 1963-1972.	0.7	56
15	Diatom production in the marine environment: implications for larval fish growth and condition. ICES Journal of Marine Science, 2001, 58, 1106-1113.	1.2	51
16	Variability in condition and growth of Atlantic cod larvae and juveniles reared in mesocosms: environmental and maternal effects. Journal of Fish Biology, 2003, 62, 706-723.	0.7	51
17	Does otolith structure reflect the nutritional condition of a fish larva? Comparison of otolith structure and biochemical index (RNA/DNA ratio) determined on cod larvae. Marine Ecology - Progress Series, 1996, 138, 33-39.	0.9	51
18	Nutritional condition and vertical distribution of Baltic cod larvae. Journal of Fish Biology, 1997, 51, 352-369.	0.7	50

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19	The influence of temperature on the development of Baltic Sea sprat (Sprattus sprattus) eggs and yolk sac larvae. Marine Biology, 2008, 154, 295-306.	0.7	48
20	Invading Mnemiopsis leidyi as a potential threat to Baltic fish. Marine Ecology - Progress Series, 2007, 349, 303-306.	0.9	45
21	Parental effects on early life history traits of Atlantic herring (Clupea harengus L.) larvae. Journal of Experimental Marine Biology and Ecology, 2006, 334, 51-63.	0.7	43
22	Effects of ocean acidification on the calcification of otoliths of larval Atlantic cod Gadus morhua. Marine Ecology - Progress Series, 2013, 477, 251-258.	0.9	41
23	Essential fatty acid (docosahexaenoic acid, DHA) availability affects growth of larval herring in the field. Marine Biology, 2014, 161, 239-244.	0.7	38
24	Food web changes under ocean acidification promote herring larvae survival. Nature Ecology and Evolution, 2018, 2, 836-840.	3.4	37
25	Ontogenic changes in the allometric scaling of the mass and length relationship in Sprattus sprattus.. Journal of Fish Biology, 2005, 66, 882-887.	0.7	36
26	On the edge of death: Rates of decline and lower thresholds of biochemical condition in food-deprived fish larvae and juveniles. Journal of Marine Systems, 2012, 93, 11-24.	0.9	36
27	Effect of ocean acidification on marine fish sperm (Baltic cod: <i>Gadus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.3	35
28	The influence of different salinity conditions on egg buoyancy and development and yolk sac larval survival and morphometric traits of Baltic Sea sprat (<i>Sprattus sprattus balticus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	0.8	35
29	Factors influencing the spatial and temporal distribution of microplastics at the sea surface â€“ A year-long monitoring case study from the urban Kiel Fjord, southwest Baltic Sea. Science of the Total Environment, 2020, 736, 139493.	3.9	34
30	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
31	Growth performance and survival of larval Atlantic herring, under the combined effects of elevated temperatures and CO2. PLoS ONE, 2018, 13, e0191947.	1.1	33
32	Environmental cues and constraints affecting the seasonality of dominant calanoid copepods in brackish, coastal waters: a case study of Acartia, Temora and Eurytemora species in the south-west Baltic. Marine Biology, 2012, 159, 2399-2414.	0.7	32
33	The swimming kinematics and foraging behavior of larval Atlantic herring (Clupea harengus L.) are unaffected by elevated pCO2. Journal of Experimental Marine Biology and Ecology, 2015, 466, 42-48.	0.7	31
34	Molecular Ontogeny of First-Feeding European Eel Larvae. Frontiers in Physiology, 2018, 9, 1477.	1.3	31
35	A comparison of the nutritional condition of herring larvae as determined by two biochemical methods - tryptic enzyme activity and RNA/DNA ratio measurements. ICES Journal of Marine Science, 1992, 49, 245-249.	1.2	30
36	The ecophysiology of Sprattus sprattus in the Baltic and North Seas. Progress in Oceanography, 2012, 103, 42-57.	1.5	29

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37	Divergent responses of Atlantic cod to ocean acidification and food limitation. Global Change Biology, 2019, 25, 839-849.	4.2	28
38	Vertical distribution and growth performance of Baltic cod larvae â€“ Field evidence for starvation-induced recruitment regulation during the larval stage?. Progress in Oceanography, 2011, 91, 382-396.	1.5	27
39	Forecasting future recruitment success for Atlantic cod in the warming and acidifying Barents Sea. Global Change Biology, 2018, 24, 526-535.	4.2	26
40	Recruitment processes in Baltic sprat â€“ A re-evaluation of GLOBEC Germany hypotheses. Progress in Oceanography, 2012, 107, 61-79.	1.5	24
41	Characteristics of survivors: growth and nutritional condition of early stages of the hake species Merluccius paradoxus and M. capensis in the southern Benguela ecosystem. ICES Journal of Marine Science, 2012, 69, 553-562.	1.2	23
42	Nutritional situation for larval Atlantic herring (Clupea harengus L.) in two nursery areas in the western Baltic Sea. ICES Journal of Marine Science, 2014, 71, 991-1000.	1.2	23
43	Comparative nutritional condition of larval dab Limanda limanda and lesser sandeel Ammodytes marinus in a highly variable environment. Marine Ecology - Progress Series, 2007, 334, 205-212.	0.9	23
44	Calibrating and comparing somatic-, nucleic acid-, and otolith-based indicators of growth and condition in young juvenile European sprat (Sprattus sprattus). Journal of Experimental Marine Biology and Ecology, 2015, 471, 217-225.	0.7	22
45	Various methods to determine the gonadal development and spawning season of the purplish Washington clam, Saxidomus purpuratus (Sowerby). Journal of Applied Ichthyology, 2005, 21, 101-106.	0.3	21
46	Immunostimulatory effects of dietary poly-Î²-hydroxybutyrate in European sea bass postlarvae. Aquaculture Research, 2017, 48, 5707-5717.	0.9	21
47	Poly-Î²-hydroxybutyrate administration during early life: effects on performance, immunity and microbial community of European sea bass yolk-sac larvae. Scientific Reports, 2017, 7, 15022.	1.6	20
48	The proteome of Atlantic herring (Clupea harengus L.) larvae is resistant to elevated p CO 2. Marine Pollution Bulletin, 2014, 86, 154-160.	2.3	18
49	Effects of parental acclimation and energy limitation in response to high CO2 exposure in Atlantic cod. Scientific Reports, 2018, 8, 8348.	1.6	17
50	Estimating recent growth in the cuttlefish Sepia officinalis: are nucleic acid-based indicators for growth and condition the method of choice?. Journal of Experimental Marine Biology and Ecology, 2005, 317, 37-51.	0.7	16
51	Salinity dependence of recruitment success of the sea star Asterias rubens in the brackish western Baltic Sea. Helgoland Marine Research, 2015, 69, 169-175.	1.3	16
52	Variability of larval Baltic sprat (<i>Sprattus sprattus</i> L.) otolith growth: a modeling approach combining spatially and temporally resolved biotic and abiotic environmental key variables. Fisheries Oceanography, 2010, 19, 463-479.	0.9	15
53	A novel length back-calculation approach accounting for ontogenetic changes in the fish lengthÂâ€“ otolith size relationship during the early life of sprat (<i>Sprattus sprattus</i>). Canadian Journal of Fisheries and Aquatic Sciences, 2012, 69, 1214-1229.	0.7	14
54	Environmental tolerance of three gammarid species with and without invasion record under current and future global warming scenarios. Diversity and Distributions, 2019, 25, 603-612.	1.9	13

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55	RNA/DNA ratio is an early responding, accurate performance parameter in growth experiments of noble crayfish<i>Astacus astacus</i>(L.). Aquaculture Research, 2015, 46, 1937-1945.	0.9	12
56	Larval condition and growth of <i>Sardinella brasiliensis </i> (Steindachner, 1879): preliminary results from laboratory studies. Scientia Marina, 2003, 67, 13-23.	0.3	12
57	Use of biochemical indices for analysis of growth in juvenile two-spotted gobies (<i>Gobiusculus) Tj ETQq1 1 0.784314 rgBT /Overloc	0.3	12
58	Depth-dependent nutritional condition of sprat Sprattus sprattus larvae in the central Bornholm Basin, Baltic Sea. Marine Ecology - Progress Series, 2007, 341, 217-228.	0.9	11
59	Effects of egg size, parental origin and feeding conditions on growth of larval and juvenile cod <i>Gadus morhua</i>. Journal of Fish Biology, 2009, 75, 516-537.	0.7	10
60	Preliminary insight into the relationship between environmental factors and the nutritional condition and growth of Gilchristella aestuaria larvae in the upper reaches of South African estuaries. Environmental Biology of Fishes, 2015, 98, 2367-2378.	0.4	10
61	Lipids as a proxy for larval starvation and feeding condition in small pelagic fish: a field approach on match-mismatch effects on Baltic sprat. Marine Ecology - Progress Series, 2015, 531, 277-292.	0.9	10
62	Impacts of copepods on marine seston, and resulting effects on Calanus finmarchicus RNA:DNA ratios in mesocosm experiments. Marine Biology, 2005, 146, 531-541.	0.7	9
63	Reprint of: The ecophysiology of Sprattus sprattus in the Baltic and North Seas. Progress in Oceanography, 2012, 107, 31-46.	1.5	9
64	First record of the non-indigenous jellyfish Blackfordia virginica (Mayer, 1910) in the Baltic Sea. Helgoland Marine Research, 2018, 72, .	1.3	9
65	An individual-based model for the direct conversion of otolith into somatic growth rates. Fisheries Oceanography, 2007, 16, 207-215.	0.9	8
66	Food-limited growth of larval Atlantic herring Clupea harengus recurrently observed in a coastal nursery area. Helgoland Marine Research, 2017, 70, .	1.3	8
67	Appraisal of Warm-Temperate South African Mangrove Estuaries as Habitats to Enhance Larval Nutritional Condition and Growth of Gilchristella aestuaria (Family Clupeidae) Using RNA:DNA Ratios. Estuaries and Coasts, 2018, 41, 1463-1474.	1.0	8
68	Temperature effects on vital rates of different life stages and implications for population growth of Baltic sprat. Marine Biology, 2012, 159, 2621-2632.	0.7	7
69	Ecological commonalities among pelagic fishes: comparison of freshwater ciscoes and marine herring and sprat. Marine Biology, 2012, 159, 2583-2603.	0.7	7
70	Transcriptome profiling reveals exposure to predicted end-of-century ocean acidification as a stealth stressor for Atlantic cod larvae. Scientific Reports, 2019, 9, 16908.	1.6	7
71	Differential gene expression patterns related to lipid metabolism in response to ocean acidification in larvae and juveniles of Atlantic cod. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 247, 110740.	0.8	7
72	Condition of the Brazilian sardine, Sardinella brasiliensis (Steindachner, 1879) larvae in the SÃ£o SebastiÃ£o inner and middle continental shelf (SÃ£o Paulo, Brazil). Brazilian Journal of Oceanography, 2004, 52, 81-87.	0.6	7

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73	Evaluation of an improved RNA/DNA quantification method in a common carp (Cyprinus carpio) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.3	5
74	Impaired larval development at low salinities could limit the spread of the non-native crab Hemigrapsus takanoi in the Baltic Sea. Aquatic Biology, 2021, 30, 85-99.	0.5	5
75	Pilot study to investigate the effect of long-term exposure to high pCO2 on adult cod (Gadus morhua) otolith morphology and calcium carbonate deposition. Fish Physiology and Biochemistry, 2021, 47, 1879-1891.	0.9	5
76	Seasonal and spatial variations in the RNA:DNA ratio and its relation to growth in sub-Arctic scallops. Marine Ecology - Progress Series, 2010, 407, 87-98.	0.9	3
77	Quantifying top-down control and ecological traits of the scyphozoan Aurelia aurita through a dynamic plankton model. Journal of Plankton Research, 2018, , .	0.8	2
78	Growth and nutritional condition of anchovy larvae on the west and southeast coasts of South Africa. Marine Ecology - Progress Series, 2020, 644, 119-128.	0.9	2
79	Paths to the unknown: dispersal during the early life of fishes. Canadian Journal of Fisheries and Aquatic Sciences, 2018, 75, 792-796.	0.7	0
80	Ocean Acidification Alters the Predator â€" Prey Relationship Between Hydrozoa and Fish Larvae. Frontiers in Marine Science, 2022, 9, .	1.2	0