Howard Browman

List of Publications by Year
in descending order

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126 papers	3,600 citations	101496 36 h-index	168321 53 g-index
128 all docs	128 docs citations	128 times ranked	3604 citing authors

#	Article	IF	Citations
1	Integrating what? Levels of marine ecosystem-based assessment and management. ICES Journal of Marine Science, 2014, 71, 1170-1173.	1.2	147
2	Flexible search tactics and efficient foraging in saltatory searching animals. Oecologia, 1989, 80, 100-110.	0.9	146
3	Biological weighting of ultraviolet (280-400 nm) induced mortality in marine zooplankton and fish. I. Atlantic cod (Gadus morhua) eggs. Marine Biology, 1999, 134, 269-284.	0.7	105
4	Delousing of Atlantic salmon (Salmo salar) by cultured vs. wild ballan wrasse (Labrus bergylta). Aquaculture, 2013, 402-403, 113-118.	1.7	103
5	Foraging behavior of the predaceous cladoceran, Leptodora kindti, and escape responses of their prey. Journal of Plankton Research, 1989, 11, 1075-1088.	0.8	84
6	Thyroxine induces a precocial loss of ultraviolet photo sensitivity in rainbow trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	84
7	The developmental trajectory of ultraviolet photosensitivity in rainbow trout is altered by thyroxine. Vision Research, 1994, 34, 1397-1406.	0.7	80
8	Debating the effectiveness of marine protected areas. ICES Journal of Marine Science, 2018, 75, 1156-1159.	1.2	77
9	Operationalizing and implementing ecosystem-based management. ICES Journal of Marine Science, 2017, 74, 379-381.	1.2	76
10	Biological weighting of ultraviolet (280-400 nm) induced mortality in marine zooplankton and fish. II. Calanus finmarchicus (Copepoda) eggs. Marine Biology, 1999, 134, 285-293.	0.7	72
11	Welfare of aquatic animals: where things are, where they are going, and what it means for research, aquaculture, recreational angling, and commercial fishing. ICES Journal of Marine Science, 2019, 76, 82-92.	1.2	70
12	Introduction: status and future of modelling physical-biological interactions during the early life of fishes. Marine Ecology - Progress Series, 2007, 347, 121-126.	0.9	69
13	Applying organized scepticism to ocean acidification research. ICES Journal of Marine Science, 2016, 73, 529-536.	1.2	67
14	Wrasse (Labridae) as cleaner fish in salmonid aquaculture â€“ The Hardangerfjord as a case study. Marine Biology Research, 2014, 10, 289-300.	0.3	66
15	Foraging and prey-search behaviour of small juvenile rainbow trout (Oncorhynchus mykiss) under polarized light. Journal of Experimental Biology, 2001, 204, 2415-2422.	0.8	64
16	Optic nerve response and retinal structure in rainbow trout of different sizes. Vision Research, 1993, 33, 1739-1746.	0.7	62
17	Glass eels (Anguilla anguilla) have a magnetic compass linked to the tidal cycle. Science Advances, 2017, 3, e1602007.	4.7	61
18	Correlation between Histological and Behavioral Measures of Visual Acuity in a Zooplanktivorous Fish, the White Crappie <i>(Pomoxis annularis)</i>. Brain, Behavior and Evolution, 1990, 35, 85-97.	0.9	59

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19	Foraging and Prey Search Behaviour of Golden Shiner (Notemigonus crysoleucas) Larvae. Canadian Journal of Fisheries and Aquatic Sciences, 1992, 49, 813-819.	0.7	57
20	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
21	Early life stages of the Arctic copepod Calanus glacialis are unaffected by increased seawater pCO2. ICES Journal of Marine Science, 2017, 74, 996-1004.	1.2	55
22	Ultraviolet (280â€“400 nm)â€“induced DNA Damage in the Eggs and Larvae of Calanus finmarchicus G. (Copepoda) and Atlantic Cod (Gadus morhua)Â¶. Photochemistry and Photobiology, 2003, 77, 397.	1.3	54
23	Foraging and prey-search behaviour of small juvenile rainbow trout (Oncorhynchus mykiss) under polarized light. Journal of Experimental Biology, 2001, 204, 2415-22.	0.8	54
24	Magnetic Compass Orientation in the European Eel. PLoS ONE, 2013, 8, e59212.	1.1	53
25	Regulation of gene expression is associated with tolerance of the Arctic copepod Calanus glacialis to <scp>CO</scp>₂â€acidified sea water. Ecology and Evolution, 2017, 7, 7145-7160.	0.8	53
26	Penetration of ultraviolet radiation in the waters of the estuary and Gulf of St. Lawrence. Limnology and Oceanography, 1999, 44, 710-716.	1.6	52
27	Exposure to Increased Ambient Ultraviolet B Radiation has Negative Effects on Growth, Condition and Immune Function of Juvenile Atlantic Salmon (Salmo salar). Photochemistry and Photobiology, 2008, 84, 1265-1271.	1.3	50
28	Additive effects of enhanced ambient ultraviolet B radiation and increased temperature on immune function, growth and physiological condition of juvenile (parr) Atlantic Salmon, Salmo salar. Fish and Shellfish Immunology, 2011, 30, 102-108.	1.6	50
29	Marine ecosystem acoustics (MEA): quantifying processes in the sea at the spatio-temporal scales on which they occur. ICES Journal of Marine Science, 2014, 71, 2357-2369.	1.2	47
30	The ontogeny of search behavior in the white crappie, Pomoxis annularis. Environmental Biology of Fishes, 1992, 34, 181-195.	0.4	46
31	INTRODUCTION Factors and indices are one thing, deciding who is scholarly, why they are scholarly, and the relative value of their scholarship is something else entirely. Ethics in Science and Environmental Politics, 2008, 8, 1-3.	4.6	46
32	Effect of solar ultraviolet radiation (280â€“400 nm) on the eggs and larvae of Atlantic cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	45
33	The Role of Fisheries-Induced Evolution. Science, 2008, 320, 47-50.	6.0	42
34	Effect of solar ultraviolet radiation (280-400 nm) on the eggs and larvae of Atlantic cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	41
35	An overview of global research effort in fisheries science. ICES Journal of Marine Science, 2016, 73, 1004-1011.	1.2	40
36	Bridging the gap between aquatic and terrestrial ecology. Marine Ecology - Progress Series, 2005, 304, 271-307.	0.9	40

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37	Setting the stage for the machine intelligence era in marine science. ICES Journal of Marine Science, 2020, 77, 1267-1273.	1.2	38
38	Foraging behaviour of larval cod (Gadus morhua) at low light intensities. Marine Biology, 2011, 158, 1125-1133.	0.7	37
39	Distribution and habitat preferences of five species of wrasse (Family Labridae) in a Norwegian fjord. ICES Journal of Marine Science, 2015, 72, 890-899.	1.2	34
40	End of the century CO2 concentrations do not have a negative effect on vital rates of Calanus finmarchicus, an ecologically critical planktonic species in North Atlantic ecosystems. ICES Journal of Marine Science, 2016, 73, 937-950.	1.2	34
41	Embryology, Ethology and Ecology of Ontogenetic Critical Periods in Fish. Brain, Behavior and Evolution, 1989, 34, 5-12.	0.9	32
42	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
43	Olfactory and gustatory sensitivity to some feed-related chemicals in the Atlantic halibut (Hippoglossus hippoglossus). Aquaculture, 2007, 263, 303-309.	1.7	30
44	Revisiting Sverdrup's critical depth hypothesis. ICES Journal of Marine Science, 2015, 72, 1892-1896.	1.2	30
45	Risk assessment and risk management: a primer for marine scientists. ICES Journal of Marine Science, 2015, 72, 992-996.	1.2	29
46	Modeling the effects of ultraviolet radiation on embryos of Calanus finmarchicus and Atlantic cod (Gadus morhua) in a mixing environment. Limnology and Oceanography, 2000, 45, 1797-1806.	1.6	25
47	Fecundity of the invasive marine gastropod Crepidula fornicata near the current northern extreme of its range. Invertebrate Biology, 2017, 136, 394-402.	0.3	25
48	Ontogenetic changes in visual sensitivity of the parasitic salmon louse Lepeophtheirus salmonis. Journal of Experimental Biology, 2000, 203, 1649-57.	0.8	24
49	Foraging behaviour in fishes: perspectives on variance. Environmental Biology of Fishes, 1986, 16, 25-33.	0.4	23
50	Assessing the impacts of solar ultraviolet radiation on the early life stages of crustacean zooplankton and ichthyoplankton in Marine coastal systems. Estuaries and Coasts, 2003, 26, 30-39.	1.7	23
51	Chemoreception in the salmon louse Lepeophtheirus salmonis: an electrophysiology approach. Diseases of Aquatic Organisms, 2007, 78, 161-168.	0.5	23
52	Glass eels (Anguilla anguilla) imprint the magnetic direction of tidal currents from their juvenile estuaries. Communications Biology, 2019, 2, 366.	2.0	23
53	Effects of Prey Color and Background Color on Feeding by Atlantic Salmon Alevins. Progressive Fish-Culturist, 1987, 49, 140-143.	0.6	22
54	Effect of Sub-Lethal Exposure to Ultraviolet Radiation on the Escape Performance of Atlantic Cod Larvae (Gadus morhua). PLoS ONE, 2012, 7, e35554.	1.1	22

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55	Wavelength-dependent polarization orientation in Daphnia. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2000, 186, 1073-1087.	0.7	21
56	The effect of light on the settlement of the salmon louse, Lepeophtheirus salmonis, on Atlantic salmon, Salmo salar L.. Journal of Fish Diseases, 2004, 27, 701-708.	0.9	21
57	Observing and managing seascapes: linking synoptic oceanography, ecological processes, and geospatial modelling. ICES Journal of Marine Science, 2016, 73, 1825-1830.	1.2	21
58	Use of Membrane Filters for Microscopic Preparations of Sponge Spicules. Transactions of the American Microscopical Society, 1987, 106, 10.	0.3	18
59	UVB Radiation Variably Affects nâ€3 Fatty Acids but Elevated Temperature Reduces nâ€3 Fatty Acids in Juvenile Atlantic Salmon (Salmo salar). Lipids, 2012, 47, 1181-1192.	0.7	18
60	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
61	Airgun blasts used in marine seismic surveys have limited effects on mortality, and no sublethal effects on behaviour or gene expression, in the copepod Calanus finmarchicus. ICES Journal of Marine Science, 2019, 76, 2033-2044.	1.2	18
62	Atlantic Haddock (Melanogrammus aeglefinus) Larvae Have a Magnetic Compass that Guides Their Orientation. IScience, 2019, 19, 1173-1178.	1.9	18
63	The three-dimensional prey field of the northern krill, Meganyctiphanes norvegica, and the escape responses of their copepod prey. Marine Biology, 2010, 157, 1251-1258.	0.7	17
64	The future is now: marine aquaculture in the anthropocene. ICES Journal of Marine Science, 2021, 78, 315-322.	1.2	17
65	A unifying hypothesis for the spawning migrations of temperate anguillid eels. Fish and Fisheries, 2022, 23, 358-375.	2.7	17
66	The escape response of food-deprived cod larvae (Gadus morhua L.). Journal of Experimental Marine Biology and Ecology, 2007, 353, 135-144.	0.7	16
67	Where has all the recruitment research gone, long time passing?. ICES Journal of Marine Science, 2015, 71, 2293-2299.	1.2	16
68	Infection of the planktonic copepod Calanus finmarchicus by the parasitic dinoflagellate, Blastodinium spp: effects on grazing, respiration, fecundity and fecal pellet production. Journal of Plankton Research, 2015, 37, 211-220.	0.8	16
69	Advancing the link between ocean connectivity, ecological function and management challenges. ICES Journal of Marine Science, 2017, 74, 1702-1707.	1.2	16
70	Light Primes the Escape Response of the Calanoid Copepod, Calanus finmarchicus. PLoS ONE, 2012, 7, e39594.	1.1	15
71	Stress is not pain. Comment on Elwood and Adams (2015) â€˜Electric shock causes physiological stress responses in shore crabs, consistent with prediction of painâ€™. Biology Letters, 2016, 12, 20151006.	1.0	15
72	Behavioural responses of infectiveâ€stage copepodids of the salmon louse (Lepeophtheirus salmonis,) Tj ETQq0 0 0 rgBT /Overlock 1	0.9	15

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73	The effects of hydrogen peroxide on mortality, escape response, and oxygen consumption of Calanus spp.. Facets, 2019, 4, 626-637.	1.1	15
74	Exposure to teflubenzuron negatively impacts exploratory behavior, learning and activity of juvenile European lobster (Homarus gammarus). Ecotoxicology and Environmental Safety, 2018, 160, 216-221.	2.9	14
75	Diurnal feeding and prey size selection in Atlantic salmon, Salmo salar, alevins. Developments in Environmental Biology of Fishes, 1986, , 269-284.	0.2	14
76	Electroencephalogram recordings from the olfactory bulb of juvenile (0 year) Atlantic cod in response to amino acids. Journal of Fish Biology, 2004, 65, 1657-1664.	0.7	13
77	Prey extracts evoke swimming behavior in juvenile Atlantic halibut (Hippoglossus hippoglossus). Aquaculture, 2007, 270, 570-573.	1.7	13
78	Effects of UV Radiation and Diet on Polyunsaturated Fatty Acids in the Skin, Ocular Tissue and Dorsal Muscle of Atlantic Salmon (Salmo salar) Held in Outdoor Rearing Tanks. Photochemistry and Photobiology, 2010, 86, 909-919.	1.3	13
79	Quo Vadimus. ICES Journal of Marine Science, 2012, 69, 1-2.	1.2	13
80	The Atlantic salmon (Salmo salar) antimicrobial peptide cathelicidin-2 is a molecular host-associated cue for the salmon louse (Lepeophtheirus salmonis). Scientific Reports, 2018, 8, 13738.	1.6	13
81	The relationship between the moon cycle and the orientation of glass eels (Anguilla anguilla) at sea. Royal Society Open Science, 2019, 6, 190812.	1.1	13
82	The lunar compass of European glass eels (Anguilla anguilla) increases the probability that they recruit to North Sea coasts. Fisheries Oceanography, 2021, 30, 315-330.	0.9	13
83	Welfare of aquatic organisms: Is there some faith-based HARKing going on here?. Diseases of Aquatic Organisms, 2011, 94, 255-257.	0.5	13
84	â€˜Adaptation scienceâ€™ is needed to inform the sustainable management of the world's oceans in the face of climate change. ICES Journal of Marine Science, 2022, 79, 457-462.	1.2	13
85	Fine-scale observations of the predatory behaviour of the carnivorous copepod Paraeuchaeta norvegica and the escape responses of their ichthyoplankton prey, Atlantic cod (Gadus morhua). Marine Biology, 2011, 158, 2653-2660.	0.7	12
86	UV radiation changes algal stoichiometry but does not have cascading effects on a marine food chain. Journal of Plankton Research, 0, , fbv082.	0.8	11
87	Effects of Exposure to Low Concentrations of Oil on the Expression of Cytochrome P4501a and Routine Swimming Speed of Atlantic Haddock (Melanogrammus aeglefinus) Larvae In Situ. Environmental Science & Technology, 2020, 54, 13879-13887.	4.6	11
88	Trophic Ecology of the European Eel (Anguilla anguilla) across Different Salinity Habitats Inferred from Fatty Acid and Stable Isotope Analysis. Canadian Journal of Fisheries and Aquatic Sciences, 0, , .	0.7	11
89	The planktonic stages of the salmon louse (Lepeophtheirus salmonis) are tolerant of end-of-century pCO₂ concentrations. PeerJ, 2019, 7, e7810.	0.9	11
90	Early ontogeny of the Atlantic halibut Hippoglossus hippoglossus head. Journal of Fish Biology, 2011, 78, 1035-1053.	0.7	10

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91	Sub-lethal exposure to ultraviolet radiation reduces prey consumption by Atlantic cod larvae (Gadus) Tj ETQq1 1 0.784314 rgBT /Over	0.7	10
92	Commemorating 100 years since Hjort's 1914 treatise on fluctuations in the great fisheries of northern Europe: where we have been, where we are, and where we are going. ICES Journal of Marine Science, 2014, 71, 1989-1992.	1.2	10
93	Orientation behavior and swimming speed of Atlantic herring larvae (Clupea harengus) in situ and in laboratory exposures to rotated artificial magnetic fields. Journal of Experimental Marine Biology and Ecology, 2020, 526, 151358.	0.7	10
94	The relationship between ultraviolet and polarized light and growth rate in the early larval stages of turbot (Scophtalmus maximus), Atlantic cod (Gadus morhua) and Atlantic herring (Clupea harengus) reared in intensive culture conditions. Aquaculture, 2006, 256, 296-301.	1.7	9
95	Responses of larval zebrafish to low pH immersion assay. Comment on Lopez-Luna et al.. Journal of Experimental Biology, 2017, 220, 3191-3192.	0.8	9
96	Silencing of ionotropic receptor 25a decreases chemosensory activity in the salmon louse Lepeophtheirus salmonis during the infective stage. Gene, 2019, 697, 35-39.	1.0	9
97	Mind the Depth: The Vertical Dimension of a Smallâ€Scale Coastal Fishery Shapes Selection on Species, Size, and Sex in Wrasses. Marine and Coastal Fisheries, 2020, 12, 404-422.	0.6	9
98	Grazing Rates of Calanus finmarchicus on Thalassiosira weissflogii Cultured under Different Levels of Ultraviolet Radiation. PLoS ONE, 2011, 6, e26333.	1.1	9
99	Insects cannot tell us anything about subjective experience or the origin of consciousness. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3813-E3813.	3.3	8
100	Towards a broader perspective on ocean acidification research. ICES Journal of Marine Science, 2017, 74, 889-894.	1.2	8
101	Feeding habitat and silvering stage affect lipid content and fatty acid composition of <scp>European</scp> eel <scp>Anguilla anguilla</scp> tissues. Journal of Fish Biology, 2021, 99, 1110-1124.	0.7	8
102	Photo-enhanced toxicity of crude oil on early developmental stages of Atlantic cod (Gadus morhua). Science of the Total Environment, 2022, 807, 150697.	3.9	8
103	Impacts of Ultraviolet Radiation on Crustacean Zooplankton and Ichthyoplankton: Case Studies from Subarctic Marine Ecosystems. Ecological Studies, 2002, , 261-304.	0.4	7
104	Problems with equating thermal preference with â€˜emotional feverâ€™ and sentience: comment on â€˜Fish can show emotional fever: stress-induced hyperthermia in zebrafishâ€™ by Rey et al . (2015). Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20160681.	1.2	6
105	Movement patterns of temperate wrasses (Labridae) within a small marine protected area. Journal of Fish Biology, 2021, 99, 1513-1518.	0.7	6
106	Gene expression and epigenetic responses of the marine Cladoceran, Evadne nordmanni, and the copepod, Acartia clausi, to elevated CO₂. Ecology and Evolution, 2021, 11, 16776-16785.	0.8	6
107	Magnetic fields generated by the DC cables of offshore wind farms have no effect on spatial distribution or swimming behavior of lesser sandeel larvae (Ammodytes marinus). Marine Environmental Research, 2022, 176, 105609.	1.1	6
108	The copepod Calanus spp. (Calanidae) is repelled by polarized light. Scientific Reports, 2016, 6, 35891.	1.6	5

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109	Whether European eel leptocephali use the Earthâ€™s magnetic field to guide their migration remains an open question. Current Biology, 2017, 27, R998-R1000.	1.8	5
110	Effects of UV Radiation and Diet on Polyunsaturated Fatty Acids in the Skin, Ocular Tissue and Dorsal Muscle of Atlantic Salmon (Salmo salar) Held in Outdoor Rearing Tanks. Photochemistry and Photobiology, 2010, 86, 909-919.	1.3	5
111	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
112	Johan Hjort's impact on fisheries science: a bibliometric analysis. ICES Journal of Marine Science, 2014, 71, 2012-2016.	1.2	4
113	The effect of zooplankton abundance on feeding behaviour and prey size selection in Atlantic salmon, Salmo salar, alevins1. Ecography, 1987, 10, 163-170.	2.1	3
114	The early life history of fishâ€”there is still a lot of work to do!. ICES Journal of Marine Science, 2014, 71, 907-908.	1.2	3
115	Quo Vadimusâ€”Redux. ICES Journal of Marine Science, 2017, 74, 1-2.	1.2	3
116	Defining what constitutes a reliable dataset to test for hybridization and introgression in marine zooplankton: Comment on Choquet et al. 2020 â€œNo evidence for hybridization between <scp>Calanus finmarchicus</scp> and <scp>C. glacialis</scp> in a subarctic area of sympatryâ€• Limnology and Oceanography, 2021, 66, 3597-3602.	1.6	3
117	Ultraviolet (280-400 nm)-induced DNA Damage in the Eggs and Larvae of Calanus finmarchicus C. (Copepoda) and Atlantic Cod (Gadus morhua) Â¶. Photochemistry and Photobiology, 2003, 77, 397-404.	1.3	2
118	The effect of hydrostatic pressure on grazing in three calanoid copepods. Journal of Plankton Research, 2016, 38, 131-138.	0.8	2
119	Visual sensitivity and spatial resolution of the planktivorous fish, Atherinomorus forskalii (Atherinidae; RÃ¼ppell, 1838), to a polarized grating. Vision Research, 2017, 131, 37-43.	0.7	2
120	Goldsinny wrasse (<scp> Ctenolabrus rupestris </scp>) have a sexâ€dependent magnetic compass for maintaining site fidelity. Fisheries Oceanography, 2022, 31, 164-171.	0.9	2
121	Pragmatic animal welfare is independent of feelings. Science, 2020, 370, 180-180.	6.0	1
122	Photons in the sea: the broad perspective. Environmental Biology of Fishes, 1993, 36, 103-104.	0.4	0
123	Parameterizing and operationalizing zooplankton population dynamic and trophic interaction models. ICES Journal of Marine Science, 2014, 71, 234-235.	1.2	0
124	Sidney Holtâ€™s legacy lives on in fisheries science. ICES Journal of Marine Science, 2021, 78, 2150-2154.	1.2	0
125	Introducing Aquatic Biology. Aquatic Biology, 2007, 1, .	0.5	0
126	Applying organized skepticism to preprints. Septentrio Conference Series, 2019, , .	0.0	0