Hannes Baumann

List of Publications by Year
in descending order

66 papers	3,524 citations	201674 27 h-index	144013 57 g-index
78 all docs	78 docs citations	78 times ranked	3735 citing authors

#	ARTICLE	IF	CITATIONS
1	Coastal ocean acidification: The other eutrophication problem. Estuarine, Coastal and Shelf Science, 2014, 148, 1-13.	2.1	417
2	Fukushima-derived radionuclides in the ocean and biota off Japan. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5984-5988.	7.1	387
3	Reduced early life growth and survival in a fish in direct response to increased carbon dioxide. Nature Climate Change, 2012, 2, 38-41.	18.8	249
4	Hypoxia and acidification in ocean ecosystems: coupled dynamics and effects on marine life. Biology Letters, 2016, 12, 20150976.	2.3	207
5	Large Natural pH, CO2 and O2 Fluctuations in a Temperate Tidal Salt Marsh on Diel, Seasonal, and Interannual Time Scales. Estuaries and Coasts, 2015, 38, 220-231.	2.2	201
6	Hypoxia and Acidification Have Additive and Synergistic Negative Effects on the Growth, Survival, and Metamorphosis of Early Life Stage Bivalves. PLoS ONE, 2014, 9, e83648.	2.5	192
7	Contrasting genomic shifts underlie parallel phenotypic evolution in response to fishing. Science, 2019, 365, 487-490.	12.6	123
8	Offspring sensitivity to ocean acidification changes seasonally in a coastal marine fish. Marine Ecology - Progress Series, 2014, 504, 1-11.	1.9	115
9	Quantifying Metabolically Driven pH and Oxygen Fluctuations in US Nearshore Habitats at Diel to Interannual Time Scales. Estuaries and Coasts, 2018, 41, 1102-1117.	2.2	90
10	Separation of Norwegian coastal cod and Northeast Arctic cod by outer otolith shape analysis. Fisheries Research, 2008, 90, 26-35.	1.7	87
11	Recruitment variability in Baltic Sea sprat (Sprattus sprattus) is tightly coupled to temperature and transport patterns affecting the larval and early juvenile stages. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 2191-2201.	1.4	84
12	Vulnerability of early life stage Northwest Atlantic forage fish to ocean acidification and low oxygen. Marine Ecology - Progress Series, 2015, 523, 145-156.	1.9	84
13	Adaptation to climate change: contrasting patterns of thermal-reaction-norm evolution in Pacific versus Atlantic silversides. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2265-2273.	2.6	67
14	Experimental assessments of marine species sensitivities to ocean acidification and co-stressors: how far have we come?. Canadian Journal of Zoology, 2019, 97, 399-408.	1.0	61
15	Baltic sprat larvae: coupling food availability, larval condition and survival. Marine Ecology - Progress Series, 2006, 308, 243-254.	1.9	57
16	Reconstruction of environmental histories to investigate patterns of larval radiated shanny (Ulvaria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Science, 2003, 60, 243-258.	2.5	52
17	Mercury Stable Isotopes Reveal Influence of Foraging Depth on Mercury Concentrations and Growth in Pacific Bluefin Tuna. Environmental Science & Technology, 2018, 52, 6256-6264.	10.0	52
18	Decadal Changes in the World's Coastal Latitudinal Temperature Gradients. PLoS ONE, 2013, 8, e67596.	2.5	51

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19	PERSPECTIVE: The role of experiments in understanding fisheryâ€induced evolution. Evolutionary Applications, 2009, 2, 276-290.	3.1	50
20	Linking growth to environmental histories in central Baltic young-of-the-year sprat, Sprattus sprattus: an approach based on otolith microstructure analysis and hydrodynamic modelling. Fisheries Oceanography, 2006, 15, 465-476.	1.7	46
21	Temperature and photoperiod effects on sex determination in a fish. Journal of Experimental Marine Biology and Ecology, 2014, 461, 39-43.	1.5	45
22	Short-term decoupling of otolith and somatic growth induced by food level changes in postlarval Baltic sprat, Sprattus sprattus. Marine and Freshwater Research, 2005, 56, 539.	1.3	44
23	A quantitative genetic approach to assess the evolutionary potential of a coastal marine fish to ocean acidification. Evolutionary Applications, 2015, 8, 352-362.	3.1	40
24	Temperature-induced regional and temporal growth differences in Baltic young-of-the-year sprat Sprattus sprattus. Marine Ecology - Progress Series, 2006, 317, 225-236.	1.9	36
25	Detecting the Unexpected: A Research Framework for Ocean Acidification. Environmental Science & Technology, 2014, 48, 9982-9994.	10.0	34
26	Starving early juvenile sprat Sprattus sprattus (L.) in western Baltic coastal waters: evidence from combined field and laboratory observations in August and September 2003. Journal of Fish Biology, 2007, 70, 853-866.	1.6	32
27	The role of sand lances (<i>Ammodytes</i> sp.) in the Northwest Atlantic Ecosystem: A synthesis of current knowledge with implications for conservation and management. Fish and Fisheries, 2020, 21, 522-556.	5.3	32
28	Rapid, but limited, zooplankton adaptation to simultaneous warming and acidification. Nature Climate Change, 2021, 11, 780-786.	18.8	30
29	The ecophysiology of Sprattus sprattus in the Baltic and North Seas. Progress in Oceanography, 2012, 103, 42-57.	3.2	29
30	Mercury bioaccumulation increases with latitude in a coastal marine fish (Atlantic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (silversi 1009-1015.	1.4	29
31	Loss of transcriptional plasticity but sustained adaptive capacity after adaptation to global change conditions in a marine copepod. Nature Communications, 2022, 13, 1147.	12.8	27
32	The general distribution pattern and mixing probability of Baltic sprat juvenile populations. Journal of Marine Systems, 2005, 58, 52-66.	2.1	26
33	You Better Repeat It: Complex CO2 Ã— Temperature Effects in Atlantic Silverside Offspring Revealed by Serial Experimentation. Diversity, 2018, 10, 69.	1.7	25
34	Recruitment processes in Baltic sprat â€“ A re-evaluation of GLOBEC Germany hypotheses. Progress in Oceanography, 2012, 107, 61-79.	3.2	24
35	High sensitivity of a keystone forage fish to elevated CO2 and temperature. , 2019, 7, coz084.		24
36	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.	1.5	22

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37	Consequences of elevated CO2 exposure across multiple life stages in a coastal forage fish. ICES Journal of Marine Science, 2017, 74, 1051-1061.	2.5	21
38	Investigating the selective survival of summer- over spring-born sprat, Sprattus sprattus, in the Baltic Sea. Fisheries Research, 2008, 91, 1-14.	1.7	20
39	Combining otolith microstructure and trace elemental analyses to infer the arrival of juvenile Pacific bluefin tuna in the California current ecosystem. ICES Journal of Marine Science, 2015, 72, 2128-2138.	2.5	20
40	Potential for maternal effects on offspring CO2 sensitivities in the Atlantic silverside (Menidia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.5	19
41	Diel and tidal pCO2â€‰Ã—â€‰O2 fluctuations provide physiological refuge to early life stages of a coastal forage fish. Scientific Reports, 2019, 9, 18146.	3.3	19
42	Robust quantification of fish early life CO ₂ sensitivities via serial experimentation. Biology Letters, 2018, 14, 20180408.	2.3	18
43	Sensitivity of sand lance to shifting prey and hydrography indicates forthcoming change to the northeast US shelf forage fish complex. ICES Journal of Marine Science, 2021, 78, 1023-1037.	2.5	18
44	The German Bight (North Sea) is a nursery area for both locally and externally produced sprat juveniles. Journal of Sea Research, 2009, 61, 234-243.	1.6	17
45	Natural and Fukushima-derived radioactivity in macroalgae and mussels along the Japanese shoreline. Biogeosciences, 2013, 10, 3809-3815.	3.3	15
46	Citizen science observations reveal rapid, multi-decadal ecosystem changes in eastern Long Island Sound. Marine Environmental Research, 2019, 146, 80-88.	2.5	15
47	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.	1.4	14
48	Contrasting Latitudinal Variations in Vertebral Number and Sex Determination in Pacific Versus Atlantic Silverside Fishes. Copeia, 2012, 2012, 341-350.	1.3	12
49	Comparative linkage mapping uncovers recombination suppression across massive chromosomal inversions associated with local adaptation in Atlantic silversides. Molecular Ecology, 2022, 31, 3323-3341.	3.9	11
50	Growth and Mortality in Coastal Populations of Winter Flounder: Implications for Recovery of a Depleted Population. Marine and Coastal Fisheries, 2015, 7, 246-259.	1.4	10
51	Reprint of: The ecophysiology of Sprattus sprattus in the Baltic and North Seas. Progress in Oceanography, 2012, 107, 31-46.	3.2	9
52	High collocation of sand lance and protected top predators: Implications for conservation and management. Conservation Science and Practice, 2021, 3, e274.	2.0	9
53	Starvation rates in larval and juvenile Atlantic silversides (Menidia menidia) are unaffected by high CO2 conditions. Marine Biology, 2018, 165, 1.	1.5	8
54	Acidification and hypoxia interactively affect metabolism in embryos, but not larvae, of the coastal forage fish Menidia menidia. Journal of Experimental Biology, 2020, 223, .	1.7	8

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55	Natal origin and age-specific egress of Pacific bluefin tuna from coastal nurseries revealed with geochemical markers. Scientific Reports, 2021, 11, 14216.	3.3	8
56	Otolith-based growth reconstructions in young-of-year Atlantic silversides Menidia menidia and their implications for sex-selective survival. Marine Ecology - Progress Series, 2019, 632, 193-204.	1.9	8
57	Combined Effects of Ocean Acidification, Warming, and Hypoxia on Marine Organisms. Limnology and Oceanography E-Lectures, 2016, 6, 1-43.	0.6	7
58	Are long-term growth responses to elevated pCO2 sex-specific in fish?. PLoS ONE, 2020, 15, e0235817.	2.5	7
59	Adaptation and evolutionary responses to high CO2. Fish Physiology, 2019, 37, 369-395.	0.8	6
60	A comprehensive non-redundant reference transcriptome for the Atlantic silverside Menidia menidia. Marine Genomics, 2020, 53, 100738.	1.1	6
61	Larval transport pathways from three prominent sand lance habitats in the Gulf of Maine. Fisheries Oceanography, 2022, 31, 333-352.	1.7	6
62	Changing otolith/fish size ratios during settlement in two tropical damselfishes. Helgoland Marine Research, 2011, 65, 425-429.	1.3	5
63	Longitudinal Length Back-Calculations from Otoliths and Scales Differ Systematically in Haddock. Transactions of the American Fisheries Society, 2013, 142, 184-192.	1.4	4
64	Population genetics and geometric morphometrics of the key silverside, <I>Menidia conchorum</I>, a marine fish in a highly-fragmented, inland habitat. Bulletin of Marine Science, 2016, 92, 33-50.	0.8	4
65	Temperature-dependent effects on fecundity in a serial broadcast spawning fish after whole-life high CO2 exposure. ICES Journal of Marine Science, 2021, 78, 3724-3734.	2.5	4
66	Absence of countergradient and cogradient variation in an oceanic silverside, the California grunion Leuresthes tenuisÂ. Marine Ecology - Progress Series, 2012, 461, 175-186.	1.9	3