Brian R Mackenzie

List of Publications by Year
in descending order

108	6,281	61945 43	76872 74
papers	citations	h-index	g-index

114	114	114	5980
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Baltic Sea as a time machine for the future coastal ocean. Science Advances, 2018, 4, eaar8195.	4.7	339
2	Status of Biodiversity in the Baltic Sea. PLoS ONE, 2010, 5, e12467.	1.1	261
3	Evidence for a domeâ€shaped relationship between turbulence and larval fish ingestion rates. Limnology and Oceanography, 1994, 39, 1790-1799.	1.6	236
4	Projected impacts of climate change on marine fish and fisheries. ICES Journal of Marine Science, 2013, 70, 1023-1037.	1.2	230
5	Baltic cod recruitment â€" the impact of climate variability on key processes. ICES Journal of Marine Science, 2005, 62, 1408-1425.	1.2	204
6	Encounter rates and swimming behavior of pauseâ€travel and cruise larval fish predators in calm and turbulent laboratory environments. Limnology and Oceanography, 1995, 40, 1278-1289.	1.6	171
7	Impact of 21st century climate change on the Baltic Sea fish community and fisheries. Global Change Biology, 2007, 13, 1348-1367.	4.2	165
8	FISH PRODUCTION AND CLIMATE: SPRAT IN THE BALTIC SEA. Ecology, 2004, 85, 784-794.	1.5	150
9	The spatial structure of the physical environment. Oecologia, 1993, 96, 114-121.	0.9	146
10	Quantifying environmental heterogeneity:habitat size necessary for successful development of cod Gadus morhua eggs in the Baltic Sea. Marine Ecology - Progress Series, 2000, 193, 143-156.	0.9	143
11	Daily ocean monitoring since the 1860s shows record warming of northern European seas. Global Change Biology, 2007, 13, 1335-1347.	4.2	141
12	Quantifying the contribution of small-scale turbulence to the encounter rates between larval fish and their zooplankton prey: effects of wind and tide. Marine Ecology - Progress Series, 1991, 73, 149-160.	0.9	128
13	Uncertainties in projecting climate-change impacts in marine ecosystems. ICES Journal of Marine Science, 2016, 73, 1272-1282.	1.2	126
14	Wind-based models for estimating the dissipation rates of turbulent energy in aquatic environments: empirical comparisons. Marine Ecology - Progress Series, 1993, 94, 207-216.	0.9	126
15	Larval fish feeding and turbulence: A case for the downside. Limnology and Oceanography, 2000, 45, 1-10.	1.6	122
16	Recruitment of Baltic cod and sprat stocks: identification of critical life stages and incorporation of environmental variability into stock-recruitment relationships. Scientia Marina, 2003, 67, 129-154.	0.3	117
17	Comparing reconstructed past variations and future projections of the Baltic Sea ecosystemâ€"first results from multi-model ensemble simulations. Environmental Research Letters, 2012, 7, 034005.	2.2	116
18	Estimating larval fish ingestion rates: can laboratory derived values be reliably extrapolated to the wild?. Marine Ecology - Progress Series, 1990, 67, 209-225.	0.9	114

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19	Lessons from the First Generation of Marine Ecological Forecast Products. Frontiers in Marine Science, 2017, 4, .	1.2	113
20	What is the carrying capacity for fish in the ocean? A meta-analysis of population dynamics of North Atlantic cod. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 1464-1476.	0.7	111
21	Combined effects of global climate change and regional ecosystem drivers on an exploited marine food web. Global Change Biology, 2013, 19, 3327-3342.	4.2	99
22	Comparative ecology of widely distributed pelagic fish species in the North Atlantic: Implications for modelling climate and fisheries impacts. Progress in Oceanography, 2014, 129, 219-243.	1.5	97
23	Assessment of temperature effects on interrelationships between stage durations, mortality, and growth in laboratory-reared Homarus americanus Milne Edwards larvae. Journal of Experimental Marine Biology and Ecology, 1988, 116, 87-98.	0.7	92
24	Developing Baltic cod recruitment models. II. Incorporation of environmental variability and species interaction. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 1534-1556.	0.7	90
25	Ecological forecasting under climate change: the case of Baltic cod. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2121-2130.	1.2	81
26	A cascade of warming impacts brings bluefin tuna to Greenland waters. Global Change Biology, 2014, 20, 2484-2491.	4.2	78
27	Impending collapse of bluefin tuna in the northeast Atlantic and Mediterranean. Conservation Letters, 2009, 2, 26-35.	2.8	74
28	ICES meets marine historical ecology: placing the history of fish and fisheries in current policy context. ICES Journal of Marine Science, 2016, 73, 1386-1403.	1.2	72
29	The Danish fish fauna during the warm Atlantic period (ca. 7000â€“3900bc): Forerunner of future changes?. Fisheries Research, 2007, 87, 167-180.	0.9	71
30	Turbulence-enhanced prey encounter rates in larval fish: effects of spatial scale, larval behaviour and size. Journal of Plankton Research, 1995, 17, 2319-2331.	0.8	70
31	Ecological hypotheses for a historical reconstruction of upper trophic level biomass in the Baltic Sea and Skagerrak. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 173-190.	0.7	70
32	Multi-decadal responses of a cod (Gadus morhua) population to human-induced trophic changes, fishing, and climate. , 2011, 21, 214-226.		70
33	Turbulence, larval fish ecology and fisheries recruitment: a review of field studies. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2000, 23, 357-375.	0.7	68
34	Habitat suitability of the Atlantic bluefin tuna by size class: An ecological niche approach. Progress in Oceanography, 2016, 142, 30-46.	1.5	66
35	Process-based models of feeding and prey selection in larval fish. Marine Ecology - Progress Series, 2002, 243, 151-164.	0.9	64
36	Wind-induced transport of plaice (Pleuronectes platessa) early life-history stages in the Skagerrak-Kattegat. Journal of Sea Research, 1998, 39, 11-28.	0.6	59

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37	Changing fish distributions challenge the effective management of European fisheries. Ecography, 2020, 43, 494-505.	2.1	58
38	Eastern Baltic cod:perspectives from existing data on processes affecting growth and survival of eggs and larvae. Marine Ecology - Progress Series, 1996, 134, 265-281.	0.9	57
39	Ocean warming expands habitat of a rich natural resource and benefits a national economy. Ecological Applications, 2016, 26, 2021-2032.	1.8	56
40	Stable Isotope Evidence for Late Medieval (14thâ€“15th C) Origins of the Eastern Baltic Cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.1	54
41	Larval trophodynamics, turbulence, and drift on Georges Bank: A sensitivity analysis of Cod and Haddock. Scientia Marina, 2001, 65, 99-115.	0.3	54
42	Global patterns in marine predatory fish. Nature Ecology and Evolution, 2018, 2, 65-70.	3.4	51
43	Fish, Fishing, and Pollutant Reduction in the Baltic Sea. Environmental Science & Technology, 2004, 38, 1970-1976.	4.6	50
44	Impact of Climate Change on Fish Population Dynamics in the Baltic Sea: A Dynamical Downscaling Investigation. Ambio, 2012, 41, 626-636.	2.8	48
45	Environmental Effects on Recruitment and Implications for Biological Reference Points of Eastern Baltic Cod (<i>Gadus morhua</i>). Journal of Northwest Atlantic Fishery Science, 0, 41, 205-220.	1.4	48
46	The development of the northern European fishery for north Atlantic bluefin tuna Thunnus thynnus during 1900â€“1950. Fisheries Research, 2007, 87, 229-239.	0.9	46
47	Modelling retention and dispersion mechanisms of bluefin tuna eggs and larvae in the northwest Mediterranean Sea. Progress in Oceanography, 2010, 86, 45-58.	1.5	46
48	Global biogeochemical provinces of the mesopelagic zone. Journal of Biogeography, 2018, 45, 500-514.	1.4	44
49	A global mismatch in the protection of multiple marine biodiversity components and ecosystem services. Scientific Reports, 2018, 8, 4099.	1.6	43
50	Long-term sea surface temperature baselinesâ€"time series, spatial covariation and implications for biological processes. Journal of Marine Systems, 2007, 68, 405-420.	0.9	39
51	Something old, something new: Historical perspectives provide lessons for blue growth agendas. Fish and Fisheries, 2020, 21, 774-796.	2.7	36
52	Incorporating environmental variability in stock assessment: predicting recruitment, spawner biomass, and landings of sprat (Sprattus sprattus) in the Baltic Sea. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 1334-1341.	0.7	35
53	Fishing out collective memory of migratory schools. Journal of the Royal Society Interface, 2014, 11, 20140043.	1.5	35
54	Productivity and recovery of forage fish under climate change and fishing: North Sea sandeel as a case study. Fisheries Oceanography, 2018, 27, 212-221.	0.9	35

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55	Historical ecology provides new insights for ecosystem management: eastern Baltic cod case study. Marine Policy, 2011, 35, 266-270.	1.5	34
56	Importance of fish biodiversity for the management of fisheries and ecosystems. Fisheries Research, 2008, 90, 6-8.	0.9	33
57	Could Seals Prevent Cod Recovery in the Baltic Sea?. PLoS ONE, 2011, 6, e18998.	1.1	33
58	Progressive changes in the Western English Channel foster a reorganization in the plankton food web. Progress in Oceanography, 2015, 137, 524-532.	1.5	31
59	Accuracy and precision in the calculation of phenology metrics. Journal of Geophysical Research: Oceans, 2014, 119, 8438-8453.	1.0	30
60	Spawning of Bluefin Tuna in the Black Sea: Historical Evidence, Environmental Constraints and Population Plasticity. PLoS ONE, 2012, 7, e39998.	1.1	29
61	Turbulence-induced contact rates of plankton:the question of scale. Marine Ecology - Progress Series, 1998, 166, 307-310.	0.9	29
62	Variability in growth rates of larval haddock in the northern North Sea. Fisheries Oceanography, 1999, 8, 77-92.	0.9	28
63	Historical analysis of Pan I in Atlantic cod (Gadus morhua): temporal stability of allele frequencies in the southeastern part of the species distribution. Canadian Journal of Fisheries and Aquatic Sciences, 2007, 64, 1448-1455.	0.7	28
64	Reconstructing historical stock development of Atlantic cod (Gadus morhua) in the eastern Baltic Sea before the beginning of intensive exploitation. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 2728-2741.	0.7	28
65	Hierarchical modelling of temperature and habitat size effects on population dynamics of North Atlantic cod. ICES Journal of Marine Science, 2010, 67, 833-855.	1.2	27
66	Resolving the impact of short-term variations in physical processes impacting on the spawning environment of eastern Baltic cod: application of a 3-D hydrodynamic model. Journal of Marine Systems, 2002, 32, 281-294.	0.9	26
67	Multi-decadal scale variability in the eastern Baltic cod fishery 1550â€“1860â€”Evidence and causes. Fisheries Research, 2007, 87, 106-119.	0.9	26
68	A long-term (1667â€“1860) perspective on impacts of fishing and environmental variability on fisheries for herring, eel, and whitefish in the Limfjord, Denmark. Fisheries Research, 2007, 87, 181-195.	0.9	26
69	Spawner-recruit relationships and fish stock carrying capacity in aquatic ecosystems. Marine Ecology - Progress Series, 2003, 248, 209-220.	0.9	26
70	Development of international fisheries for the eastern Baltic cod (Gadus morhua) from the late 1880s until 1938. Fisheries Research, 2007, 87, 155-166.	0.9	25
71	The migration game in habitat network: the case of tuna. Theoretical Ecology, 2016, 9, 219-232.	0.4	25
72	Productivity responses of a widespread marine piscivore, Gadus morhua , to oceanic thermal extremes and trends. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1867-1874.	1.2	23

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73	Has eutrophication promoted forage fish production in the Baltic Sea?. Ambio, 2016, 45, 649-660.	2.8	23
74	Diel variability of feeding activity in haddock (Melanogrammus aeglifinus) larvae in the East Shetland area, North Sea. Marine Biology, 1999, 135, 361-368.	0.7	22
75	An abundance estimate of ling (Molva molva) and cod (Gadus morhua) in the Skagerrak and the northeastern North Sea, 1872. Fisheries Research, 2007, 87, 196-207.	0.9	22
76	Four Regional Marine Biodiversity Studies: Approaches and Contributions to Ecosystem-Based Management. PLoS ONE, 2011, 6, e18997.	1.1	22
77	Explaining life history variation in a changing climate across a species' range. Ecology, 2014, 95, 3364-3375.	1.5	22
78	Temperature-dependent adaptation allows fish to meet their food across their speciesâ€™ range. Science Advances, 2018, 4, eaar4349.	4.7	22
79	Functional responses of North Atlantic fish eggs to increasing temperature. Marine Ecology - Progress Series, 2016, 555, 151-165.	0.9	22
80	Individual-based simulations of larval fish feeding in turbulent environments. Marine Ecology - Progress Series, 2007, 347, 155-169.	0.9	21
81	Dietary Evidence of Mesopelagic and Pelagic Foraging by Atlantic Bluefin Tuna (Thunnus thynnus L.) during Autumn Migrations to the Iceland Basin. Frontiers in Marine Science, 2016, 3, .	1.2	20
82	Combined climate change and nutrient load impacts on future habitats and eutrophication indicators in a eutrophic coastal sea. Limnology and Oceanography, 2020, 65, 2170-2187.	1.6	20
83	Historical development of fisheries in northern Europeâ€"Reconstructing chronology of interactions between nature and man. Fisheries Research, 2007, 87, 102-105.	0.9	17
84	A life-history evaluation of the impact of maternal effects on recruitment and fisheries reference points. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 1113-1120.	0.7	15
85	Trophic impact of Atlantic bluefin tuna migrations in the North Sea. ICES Journal of Marine Science, 2017, 74, 1552-1560.	1.2	14
86	A combination of species distribution and ocean-biogeochemical models suggests that climate change overrides eutrophication as the driver of future distributions of a key benthic crustacean in the estuarine ecosystem of the Baltic Sea. ICES Journal of Marine Science, 2020, 77, 2089-2105.	1.2	14
87	Climateâ€induced response of commercially important flatfish species during the 20th century. Fisheries Oceanography, 2013, 22, 400-408.	0.9	13
88	Adult lifetime reproductive value in fish depends on size and fecundity type. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1405-1412.	0.7	13
89	Swedish Baltic Sea fisheries during 1868â€"1913: Spatio-temporal dynamics of catch and fishing effort. Fisheries Research, 2007, 87, 137-145.	0.9	12
90	Climate-related Marine Ecosystem Change. , 2008, , 309-377.		12

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91	Species richness in North Atlantic fish: Process concealed by pattern. Global Ecology and Biogeography, 2020, 29, 842-856.	2.7	11
92	The development of fisheries at Bornholm, Denmark (Baltic Sea) during 1880sâ€"1914. Fisheries Research, 2007, 87, 146-154.	0.9	10
93	Editorial: Seasonal-to-Decadal Prediction of Marine Ecosystems: Opportunities, Approaches, and Applications. Frontiers in Marine Science, 2019, 6, .	1.2	10
94	Atlantic bluefin tuna (<i>Thunnus thynnus</i>) in Greenland â€" mixed-stock origin, diet, hydrographic conditions, and repeated catches in this new fringe area. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 400-408.	0.7	10
95	Oceanographic flow regime and fish recruitment: reversed circulation in the North Sea coincides with unusually strong sandeel recruitment. Marine Ecology - Progress Series, 2018, 607, 187-205.	0.9	10
96	Evidence from the past: exploitation as cause of commercial extinction of autumn-spawning herring in the Gulf of Riga, Baltic Sea. ICES Journal of Marine Science, 2018, 75, 2476-2487.	1.2	9
97	Larval Lobster (Homarus americanus Milne Edwards) Development with Great Salt Lake, Utah and Reference I Strains of Artemia Nauplii. Journal of the World Aquaculture Society, 1987, 18, 6-10.	1.2	8
98	First tagging data on large Atlantic bluefin tuna returning to Nordic waters suggest repeated behaviour and skipped spawning. Scientific Reports, 2022, 12, .	1.6	8
99	The spawning of plaice Pleuronectes platessa in the Kattegat. Journal of Sea Research, 2004, 51, 219-228.	0.6	7
100	Use of food web knowledge in environmental conservation and management of living resources in the Baltic Sea. ICES Journal of Marine Science, 2021, 78, 2645-2663.	1.2	6
101	Extending time series of fish biomasses using a Âsimple surplus production-based approach. Marine Ecology - Progress Series, 2011, 440, 191-202.	0.9	6
102	Multidisciplinary perspectives on the history of human interactions with life in the ocean. ICES Journal of Marine Science, 2016, 73, 1382-1385.	1.2	4
103	Spatially explicit estimates of stock sizes, structure and biomass of herring and blue whiting, and catch data of bluefin tuna. Earth System Science Data, 2015, 7, 35-46.	3.7	4
104	ICES and PICES Strategies for Coordinating Research on the Impacts of Climate Change on Marine Ecosystems. Oceanography, 2014, 27, 160-167.	0.5	3
105	Neglected fishery data sources as indicators of preâ€industrial ecological properties of Mediterranean swordfish (<i>Xiphias gladius</i>, Xiphiidae). Fish and Fisheries, 2022, 23, 829-846.	2.7	2
106	New historical data for long-term swordfish ecological studies in the Mediterranean Sea. Earth System Science Data, 2021, 13, 5867-5877.	3.7	1
107	Beware the misapplication of results: Response to Cardinale and SvedÃng (2007). Fisheries Research, 2008, 89, 307-308.	0.9	0
108	Fisheries: Manage declines. Nature, 2013, 495, 314-314.	13.7	0