

# Deirdre Brophy

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60  
papers

901  
citations

18  
h-index

28  
g-index

62  
ext. papers

1,030  
ext. citations

2.4  
avg, IF

4.27  
L-index

#	Paper	IF	Citations
60	Elevated manganese concentrations at the cores of clupeid otoliths: possible environmental, physiological, or structural origins. <i>Marine Biology</i> , <b>2004</b> , 144, 779-786	2.5	114
59	Otolith shape analysis: its application for discriminating between stocks of Irish Sea and Celtic Sea herring ( <i>Clupea harengus</i> ) in the Irish Sea. <i>ICES Journal of Marine Science</i> , <b>2008</b> , 65, 1670-1675	2.7	51
58	A comparison of otolith microchemistry and otolith shape analysis for the study of spatial variation in a deep-sea teleost, <i>Coryphaenoides rupestris</i> . <i>Environmental Biology of Fishes</i> , <b>2010</b> , 89, 591-605	1.6	50
57	Use of sagittal otolith shape analysis to discriminate Northeast Atlantic and Western Mediterranean stocks of Atlantic saury, <i>Scorpaenopsis scorpaenoides</i> (Walbaum). <i>Fisheries Research</i> , <b>2011</b> , 110, 465-471	2.3	45
56	Tracing populations of Atlantic herring ( <i>Clupea harengus</i> L.) in the Irish and Celtic Seas using otolith microstructure. <i>ICES Journal of Marine Science</i> , <b>2002</b> , 59, 1305-1313	2.7	45
55	Shape analysis of otolith annuli in Atlantic herring ( <i>Clupea harengus</i> ); a new method for tracking fish populations. <i>Fisheries Research</i> , <b>2008</b> , 91, 133-143	2.3	44
54	Can bottom trawling indirectly diminish carrying capacity in a marine ecosystem?. <i>Marine Biology</i> , <b>2010</b> , 157, 2375-2381	2.5	40
53	Spawning season fidelity in sympatric populations of Atlantic herring ( <i>Clupea harengus</i> ). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2006</b> , 63, 607-616	2.4	38
52	Microsatellite analysis of albacore tuna ( <i>Thunnus alalunga</i> ): population genetic structure in the North-East Atlantic Ocean and Mediterranean Sea. <i>Marine Biology</i> , <b>2011</b> , 158, 2727-2740	2.5	28
51	The detection of elements in larval otoliths from Atlantic herring using laser ablation ICP-MS. <i>Journal of Fish Biology</i> , <b>2003</b> , 63, 990-1007	1.9	28
50	Otolith shape analysis of blue whiting suggests a complex stock structure at their spawning grounds in the Northeast Atlantic. <i>Fisheries Research</i> , <b>2014</b> , 157, 1-6	2.3	27
49	Trace element fingerprinting of blue mussel ( <i>Mytilus edulis</i> ) shells and soft tissues successfully reveals harvesting locations. <i>Science of the Total Environment</i> , <b>2019</b> , 685, 50-58	10.2	26
48	An experimental investigation of salinity effects on growth, development and condition in the European flounder ( <i>Platichthys flesus</i> L.). <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2011</b> , 410, 39-44	2.1	23
47	The rise and fall of autumn-spawning herring ( <i>Clupea harengus</i> L.) in the Celtic Sea between 1959 and 2009: Temporal trends in spawning component diversity. <i>Fisheries Research</i> , <b>2012</b> , 121-122, 31-42	2.3	20
46	Dependence of RNA:DNA ratios and Fulton's K condition indices on environmental characteristics of plaice and dab nursery grounds. <i>Estuarine, Coastal and Shelf Science</i> , <b>2012</b> , 98, 60-70	2.9	19
45	Habitat characteristics promoting high density and condition of juvenile flatfish at nursery grounds on the west coast of Ireland. <i>Journal of Sea Research</i> , <b>2012</b> , 73, 7-17	1.9	19
44	Spatial variability in diet, condition and growth of juvenile plaice ( <i>Pleuronectes platessa</i> ) at sandy beach nursery grounds on the south-west coast of Ireland. <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>2011</b> , 91, 1215-1223	1.1	19

43	Modelling abundance hotspots for data-poor Irish Sea rays. <i>Ecological Modelling</i> , <b>2015</b> , 312, 77-90	3	18
42	The influence of pre-recruitment growth on subsequent growth and age at first spawning in Atlantic herring ( <i>Clupea harengus</i> L.). <i>ICES Journal of Marine Science</i> , <b>2003</b> , 60, 1103-1113	2.7	18
41	Trace elements in the otoliths and dorsal spines of albacore tuna ( <i>Thunnus alalunga</i> , Bonnaterre, 1788): An assessment of the effectiveness of cleaning procedures at removing postmortem contamination. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2011</b> , 396, 162-170	2.1	16
40	Synchronous reproduction may facilitate introgression in a hybrid mussel ( <i>Mytilus</i> ) population. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2009</b> , 378, 1-7	2.1	16
39	Scavenging on trawled seabeds can modify trophic size structure of bottom-dwelling fish. <i>ICES Journal of Marine Science</i> , <b>2014</b> , 71, 398-405	2.7	14
38	Larval otolith growth histories show evidence of stock structure in Northeast Atlantic blue whiting ( <i>Micromesistius poutassou</i> ). <i>ICES Journal of Marine Science</i> , <b>2007</b> , 64, 1136-1144	2.7	14
37	Gbm.auto: A software tool to simplify spatial modelling and Marine Protected Area planning. <i>PLoS ONE</i> , <b>2017</b> , 12, e0188955	3.7	13
36	Otolith shape variation provides a marker of stock origin for north Atlantic bluefin tuna ( <i>Thunnus thynnus</i> ). <i>Marine and Freshwater Research</i> , <b>2016</b> , 67, 1023	2.2	12
35	Temperature effect on growth and larval duration of plaice <i>Pleuronectes platessa</i> in three regions of the Northeast Atlantic. <i>Marine Ecology - Progress Series</i> , <b>2013</b> , 476, 215-226	2.6	12
34	Annual and spatial variation in the abundance length and condition of juvenile turbot ( <i>Psetta maxima</i> L.) on nursery grounds on the west coast of Ireland: 2000-2007. <i>Journal of Sea Research</i> , <b>2010</b> , 64, 494-504	1.9	11
33	Otolith shape analysis as a tool for stock separation of albacore tuna feeding in the Northeast Atlantic. <i>Fisheries Research</i> , <b>2018</b> , 200, 68-74	2.3	9
32	Temporal trends in stock origin and abundance of juvenile herring ( <i>Clupea harengus</i> ) in the Irish Sea. <i>ICES Journal of Marine Science</i> , <b>2009</b> , 66, 1749-1753	2.7	9
31	Variability in the early life stages of juvenile plaice ( <i>Pleuronectes platessa</i> ) on west of Ireland nursery grounds: 2000-2007. <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>2012</b> , 92, 395-406	1.1	8
30	The role of wind-forcing in the distribution of larval fish in Galway Bay, Ireland. <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>2013</b> , 93, 471-478	1.1	8
29	The feeding ecology of 0 year-group turbot <i>Scophthalmus maximus</i> and brill <i>Scophthalmus rhombus</i> on Irish west coast nursery grounds. <i>Journal of Fish Biology</i> , <b>2011</b> , 79, 1866-82	1.9	8
28	Experimental investigation of the effects of temperature and feeding regime on scale growth in Atlantic salmon <i>Salmo salar</i> post-smolts. <i>Journal of Fish Biology</i> , <b>2019</b> , 94, 896-908	1.9	7
27	Macrobenthic prey availability and the potential for food competition between 0 year group <i>Pleuronectes platessa</i> and <i>Limanda limanda</i> . <i>Journal of Fish Biology</i> , <b>2011</b> , 79, 1918-39	1.9	6
26	HATCHING TIMES, LARVAL DURATION, SETTLEMENT AND LARVAL GROWTH OF PLAICE ( <i>PLEURONECTES PLATESSA</i> (L.)) IN GALWAY BAY DETERMINED USING OTOLITH MICROSTRUCTURE. <i>Biology and Environment</i> , <b>2008</b> , 108, 127-134	0.8	6

25	Towards a flexible Decision Support Tool for MSY-based Marine Protected Area design for skates and rays. <i>ICES Journal of Marine Science</i> , <b>2017</b> , 74, 576-587	2.7	5
24	The early life history of turbot ( <i>Psetta maxima</i> L.) on nursery grounds along the west coast of Ireland: 2007-2009, as described by otolith microstructure. <i>Fisheries Research</i> , <b>2011</b> , 110, 478-482	2.3	5
23	Combining genetic markers with stable isotopes in otoliths reveals complexity in the stock structure of Atlantic bluefin tuna ( <i>Thunnus thynnus</i> ). <i>Scientific Reports</i> , <b>2020</b> , 10, 14675	4.9	5
22	Analysis of Growth Marks in Calcified Structures <b>2014</b> , 141-170		4
21	Advanced Spatial Modeling to Inform Management of Data-Poor Juvenile and Adult Female Rays. <i>Fishes</i> , <b>2017</b> , 2, 12	2.5	4
20	Growth and age of Atlantic saury, <i>Scomberesox saurus saurus</i> (Walbaum), in the northeastern Atlantic Ocean. <i>Fisheries Research</i> , <b>2012</b> , 131-133, 60-66	2.3	4
19	Influence of the limit of detection on classification using otolith elemental signatures. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2013</b> , 70, 922-929	2.4	4
18	Biophysical models reveal the role of tides, wind, and larval behaviour in early transport and retention of Atlantic herring ( <i>Clupea harengus</i> ) in the Celtic Sea. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2020</b> , 77, 90-107	2.4	4
17	An open-source database model and collections management system for fish scale and otolith archives. <i>Ecological Informatics</i> , <b>2020</b> , 59, 101115	4.2	3
16	Estimating growth parameters and growth variability from length frequency data using hierarchical mixture models. <i>ICES Journal of Marine Science</i> , <b>2019</b> , 76, 2150-2163	2.7	3
15	A simulated archival tagging programme for albacore ( <i>Thunnus alalunga</i> ) in the Northeast Atlantic, including an analysis of factors affecting tag recovery. <i>ICES Journal of Marine Science</i> , <b>2010</b> , 67, 1216-1227	2.7	3
14	FIN-RAY COUNT VARIATION IN 0-GROUP FLATFISH: PLAICE ( <i>PLEURONECTES PLATESSA</i> (L.)) AND FLOUNDER ( <i>PLATICHTHYS FLESUS</i> L.) ON THE WEST COAST OF IRELAND. <i>Biology and Environment</i> , <b>2008</b> , 108, 61-67	0.8	3
13	Age verification of north Atlantic sprat. <i>Fisheries Research</i> , <b>2019</b> , 213, 144-150	2.3	2
12	Bio-physical model provides insight into dispersal of plaice ( <i>Pleuronectes platessa</i> L.) from putative spawning grounds to nursery areas on the west coast of Ireland. <i>Journal of Sea Research</i> , <b>2015</b> , 99, 61-73 <sup>1.9</sup>	1.9	2
11	Scales of variability in fin ray counts of flounder <i>Platichthys flesus</i> L. on Irish and Welsh coasts. <i>Biology and Environment</i> , <b>2012</b> , 112, 185-191	0.8	2
10	The timing of early life events and growth rate estimates of age-0 year group brill <i>Scophthalmus rhombus</i> along the west coast of Ireland. <i>Journal of Fish Biology</i> , <b>2014</b> , 84, 225-30	1.9	1
9	Variation in fin ray counts of 0-group turbot ( <i>Psetta maxima</i> ) and brill ( <i>Scophthalmus rhombus</i> ) on the west coast of Ireland: 2006-2009. <i>Marine Biodiversity Records</i> , <b>2010</b> , 3,	2	1
8	Retraction. Benthivorous fish may go hungry on trawled seabed. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2011</b> , 278, 2240	4.4	1

7	Long-term trends in herring growth primarily linked to temperature by gradient boosting regression trees. <i>Ecological Informatics</i> , <b>2020</b> , 60, 101154	4.2	1
6	Interannual variability of gelatinous mesozooplankton in a temperate shelf sea: greater abundance coincides with cooler sea surface temperatures. <i>ICES Journal of Marine Science</i> , <b>2021</b> , 78, 1372-1385	2.7	1
5	Growth rates in a European eel <i>Anguilla anguilla</i> (L., 1758) population show a complex relationship with temperature over a seven-decade otolith biochronology. <i>ICES Journal of Marine Science</i> , <b>2021</b> , 78, 994-1009	2.7	1
4	Moving reference point goalposts and implications for fisheries sustainability. <i>Fish and Fisheries</i> , <b>2021</b> , 22, 1345	6	0
3	Elemental composition of illicia and otoliths and their potential application to age validation in white anglerfish ( <i>Lophius piscatorius</i> linnaeus, 1758). <i>Estuarine, Coastal and Shelf Science</i> , <b>2021</b> , 261, 107557	2.9	0
2	Investigating post-depositional alteration of trace elements in fish scales using tagged and recaptured wild salmon. <i>Fisheries Research</i> , <b>2022</b> , 248, 106207	2.3	
1	Acid treatment of Atlantic salmon ( <i>Salmo salar</i> ) scales prior to analysis has negligible effects on $\delta^{13}C$ and $\delta^{15}N$ isotope ratios. <i>Journal of Fish Biology</i> , <b>2020</b> , 97, 1285-1290	1.9	