

Finbarr O'Neill

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,590
citations

279798

23
h-index

330143

37
g-index

61
all docs

61
docs citations

61
times ranked

966
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating seabed pressure from demersal trawls, seines, and dredges based on gear design and dimensions. ICES Journal of Marine Science, 2016, 73, i27-i43.	2.5	158
2	The effect of cover mesh size and cod-end catch size on cod-end selectivity. Fisheries Research, 1996, 28, 291-303.	1.7	76
3	Towards a framework for the quantitative assessment of trawling impact on the seabed and benthic ecosystem. ICES Journal of Marine Science, 2016, 73, i127-i138.	2.5	70
4	The physical impact of towed demersal fishing gears on soft sediments. ICES Journal of Marine Science, 2016, 73, i5-i14.	2.5	65
5	The mobilisation of sediment by demersal otter trawls. Marine Pollution Bulletin, 2011, 62, 1088-1097.	5.0	61
6	An investigation of the relationship between sea state induced vessel motion and cod-end selection. Fisheries Research, 2003, 60, 107-130.	1.7	60
7	Swimming endurance of haddock (<i>Melanogrammus aeglefinus</i> L.) at prolonged and sustained swimming speeds, and its role in their capture by towed fishing gears. ICES Journal of Marine Science, 2004, 61, 1071-1079.	2.5	59
8	Measuring and assessing the physical impact of beam trawling. ICES Journal of Marine Science, 2016, 73, i15-i26.	2.5	55
9	Misspent youth: does catching immature fish affect fisheries sustainability?. ICES Journal of Marine Science, 2011, 68, 1525-1534.	2.5	53
10	On the influence of towing speed and gear size on the selective properties of bottom trawls. Fisheries Research, 2002, 55, 103-119.	1.7	50
11	Modelling the physical impact of trawl components on the seabed and comparison with sea trials. Ocean Engineering, 2011, 38, 925-933.	4.3	47
12	Selectivity of a 120mm diamond cod-end and the effect of inserting a rigid grid or a square mesh panel. Fisheries Research, 2004, 67, 151-161.	1.7	45
13	The influence of towing speed and fish density on the behaviour of haddock in a trawl cod-end. Fisheries Research, 2008, 94, 166-174.	1.7	42
14	Square mesh panels in North Sea demersal trawls: Separate estimates of panel and cod-end selectivity. Fisheries Research, 2006, 78, 333-341.	1.7	40
15	Theoretical study of the influence of twine thickness on haddock selectivity in diamond mesh cod-ends. Fisheries Research, 2006, 80, 221-229.	1.7	38
16	Measurements of aerobic metabolism of a school of horse mackerel at different swimming speeds. Journal of Fish Biology, 1996, 49, 854-862.	1.6	36
17	Comparison of mechanical disturbance in soft sediments due to tickler-chain SumWing trawl vs. electro-fitted PulseWing trawl. ICES Journal of Marine Science, 2019, 76, 312-329.	2.5	35
18	PRESEMO – a predictive model of codend selectivity – a tool for fishery managers. ICES Journal of Marine Science, 2007, 64, 1558-1568.	2.5	34

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19	A meta-analysis of haddock size-selection data. <i>Fish and Fisheries</i> , 2016, 17, 358-374.	5.3	29
20	Theoretical study of the between-haul variation of haddock selectivity in a diamond mesh cod-end. <i>Fisheries Research</i> , 2005, 74, 243-252.	1.7	28
21	Axisymmetric trawl cod-ends made from netting of a generalized mesh shape. <i>IMA Journal of Applied Mathematics</i> , 1999, 62, 245-262.	1.6	27
22	Cod-end drag as a function of catch size and towing speed. <i>Fisheries Research</i> , 2005, 72, 163-171.	1.7	27
23	Review of mesh measurement methodologies. <i>Fisheries Research</i> , 2007, 85, 279-284.	1.7	27
24	Laboratory and field trials of OMEGA, a new objective mesh gauge. <i>Fisheries Research</i> , 2007, 85, 197-201.	1.7	22
25	The selectivity of the Swedish grid and 120mm square mesh panels in the Scottish Nephrops trawl fishery. <i>Fisheries Research</i> , 2010, 106, 454-459.	1.7	22
26	The effect of strengthening bags on cod-end selectivity of a Scottish demersal trawl. <i>Fisheries Research</i> , 2004, 68, 249-257.	1.7	20
27	The effect of varying cod-end circumference, inserting a "flexi-grid"™ or inserting a Bacoma type panel on the selectivity of North Sea haddock and saithe. <i>Fisheries Research</i> , 2008, 94, 175-183.	1.7	18
28	The mobilisation of sediment and benthic infauna by scallop dredges. <i>Marine Environmental Research</i> , 2013, 90, 104-112.	2.5	18
29	The unfulfilled potential of fisheries selectivity to promote sustainability. <i>Fish and Fisheries</i> , 2016, 17, 399-416.	5.3	18
30	The hydrodynamic drag and the mobilisation of sediment into the water column of towed fishing gear components. <i>Journal of Marine Systems</i> , 2016, 164, 76-84.	2.1	17
31	Monitoring the generation and evolution of the sediment plume behind towed fishing gears using a multibeam echosounder. <i>ICES Journal of Marine Science</i> , 2013, 70, 892-903.	2.5	16
32	The reduction of cod discards by inserting 300mm diamond mesh netting in the forward sections of a trawl gear. <i>Fisheries Research</i> , 2010, 102, 221-226.	1.7	15
33	A meta-analysis of vertical stratification in demersal trawl gears. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2017, 74, 1243-1250.	1.4	15
34	An evaluation of European initiatives established to encourage industry-led development of selective fishing gears. <i>Fisheries Management and Ecology</i> , 2019, 26, 650-660.	2.0	15
35	Experimental method for quantifying resistance to the opening of netting panels. <i>ICES Journal of Marine Science</i> , 2007, 64, 1573-1578.	2.5	14
36	Discard Avoidance by Improving Fishing Gear Selectivity: Helping the Fishing Industry Help Itself. , 2019, , 279-296.		14

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37	The influence of demersal trawl fishing gears on the resuspension of dinoflagellate cysts. Marine Pollution Bulletin, 2013, 66, 17-24.	5.0	13
38	An underwater laser stripe seabed profiler to measure the physical impact of towed gear components on the seabed. Fisheries Research, 2009, 99, 234-238.	1.7	12
39	A comparison of the GOV survey trawl with a commercial whitefish trawl. Fisheries Research, 2012, 121-122, 136-143.	1.7	12
40	The influence of continuous lines of light on the height at which fish enter demersal trawls. Fisheries Research, 2019, 215, 131-142.	1.7	12
41	Bending of Twines and Fibres Under Tension. Journal of the Textile Institute, 2002, 93, 1-10.	1.9	11
42	Simulation-based investigation of the paired-gear method in cod-end selectivity studies. Fisheries Research, 2007, 83, 175-184.	1.7	11
43	The influence of twine tenacity, thickness and bending stiffness on codend selectivity. Fisheries Research, 2016, 176, 94-99.	1.7	11
44	Selectivity metrics for fisheries management and advice. Fish and Fisheries, 2020, 21, 621-638.	5.3	11
45	Source models of flow through and around screens and gauzes. Ocean Engineering, 2006, 33, 1884-1895.	4.3	10
46	Test of 300 and 600mm netting in the forward sections of a Scottish whitefish trawl. Fisheries Research, 2011, 108, 277-282.	1.7	10
47	Differential impacts of exploitation rate and juvenile exploitation on NE Atlantic fish stock dynamics over the past half century. Fisheries Research, 2012, 134-136, 21-28.	1.7	10
48	The contact drag of towed demersal fishing gear components. Journal of Marine Systems, 2018, 177, 39-52.	2.1	10
49	Small-scale modelling rules of trawl nets. Fisheries Research, 1993, 18, 173-185.	1.7	9
50	Towing cylindrical fishing gear components on cohesive soils. Computers and Geotechnics, 2015, 65, 212-219.	4.7	9
51	Estimating the selectivity of unpaired trawl data: a case study with a pelagic gear. Scientia Marina, 2016, 80, 321-327.	0.6	9
52	A short-term economic assessment of incentivised selective gears. Fisheries Research, 2014, 157, 13-23.	1.7	8
53	A meta-analysis of plaice size-selection data in otter trawl codends. Fisheries Research, 2020, 227, 105558.	1.7	8
54	A theoretical study of the factors which influence the measurement of fishing netting mesh size. Ocean Engineering, 2003, 30, 2053-2063.	4.3	6

#	ARTICLE	IF	CITATIONS
55	Comparison and Validation of Two Models of Netting Deformation. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	2.2	6
56	A Dynamic Model of the Deformation of a Diamond Mesh Cod-End of a Trawl Net. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	2.2	4
57	Modelling axisymmetric cod-ends made of different mesh types. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2009, 223, 137-144.	0.5	4
58	The Influence of Bending Stiffness on the Deformation of Axisymmetric Networks. , 2004, , .		4
59	Friction Forces Between Seabed and Fishing Gear Components. , 2012, , .		2
60	Illumination and diel variation modify fish passage through an inclined grid. Fisheries Research, 2022, 250, 106297.	1.7	2
61	Physical Impact of a Roller Clump on the Seabed. , 2008, , .		0