Russell B Millar

List of Publications by Year
in descending order

68 papers	2,468 citations	361413 20 h-index	206112 48 g-index
90 all docs	90 docs citations	90 times ranked	2519 citing authors

#	Article	IF	Citations
1	Estimating the size-selection curves of towed gears, traps, nets and hooks. Reviews in Fish Biology and Fisheries, 1999, 9, 89-116.	4.9	364
2	Remedies for pseudoreplication. Fisheries Research, 2004, 70, 397-407.	1.7	245
3	Spatial variation and effects of habitat on temperate reef fish assemblages in northeastern New Zealand. Journal of Experimental Marine Biology and Ecology, 2004, 305, 191-221.	1.5	240
4	Estimating the Size-selectivity of Fishing Gear by Conditioning on the Total Catch. Journal of the American Statistical Association, 1992, 87, 962-968.	3.1	221
5	Protection of exploited fish in temperate regions: high density and biomass of snapper Pagrus auratus (Sparidae) in northern New Zealand marine reserves. Journal of Applied Ecology, 2003, 40, 214-227.	4.0	214
6	Nonâ€linear state space modelling of fisheries biomass dynamics by using Metropolisâ€Hastings withinâ€Gibbs sampling. Journal of the Royal Statistical Society Series C: Applied Statistics, 2000, 49, 327-342.	1.0	117
7	Comparison of Hierarchical Bayesian Models for Overdispersed Count Data using DIC and Bayes' Factors. Biometrics, 2009, 65, 962-969.	1.4	116
8	Modelling between-haul variability in the size selectivity of trawls. Fisheries Research, 2004, 67, 171-181.	1.7	91
9	Selectivity of conventional diamond- and novel square-mesh codends in an Australian estuarine penaeid-trawl fishery. Fisheries Research, 2004, 67, 183-194.	1.7	71
10	Estimating the Size-Selectivity of Fishing Gear by Conditioning on the Total Catch. Journal of the American Statistical Association, 1992, 87, 962.	3.1	69
11	Size Selectivity of Diamond and Square Mesh Codends in Pelagic Herring Trawls: Only Small Herring Will Notice the Difference. Canadian Journal of Fisheries and Aquatic Sciences, 1992, 49, 2104-2117.	1.4	45
12	Beta Diversity of Demersal Fish Assemblages in the North-Eastern Pacific: Interactions of Latitude and Depth. PLoS ONE, 2013, 8, e57918.	2.5	35
13	Using marine reserves to estimate fishing mortality. Ecology Letters, 2004, 8, 47-52.	6.4	34
14	Much ado about nothings: using zero similarity points in distance-decay curves. Ecology, 2011, 92, 1717-1722.	3.2	34
15	Ocean Acidification and Fertilization in the Antarctic Sea Urchin Sterechinus neumayeri: the Importance of Polyspermy. Environmental Science & Technology, 2014, 48, 713-722.	10.0	34
16	Square-mesh codend circumference and selectivity. ICES Journal of Marine Science, 2009, 66, 566-572.	2.5	31
17	Effects of codend circumference and twine diameter on selection in south-eastern Australian fish trawls. Fisheries Research, 2009, 95, 341-349.	1.7	28
18	The kinetics of monospermic and polyspermic fertilization in free-spawning marine invertebrates. Journal of Theoretical Biology, 2003, 224, 79-85.	1.7	27

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19	FITTING NONLINEAR ENVIRONMENTAL GRADIENTS TO COMMUNITY DATA: A GENERAL DISTANCE-BASED APPROACH. Ecology, 2005, 86, 2245-2251.	3.2	26
20	Conditional vs marginal estimation of the predictive loss of hierarchical models using WAIC and cross-validation. Statistics and Computing, 2018, 28, 375-385.	1.5	23
21	Codend selection in the deep-water crustacean trawl fishery in Portuguese southern waters. Fisheries Research, 2007, 85, 49-60.	1.7	21
22	Incorporating the intraspecific occupancyâ€“abundance relationship into zeroâ€inflated models. Ecology, 2012, 93, 2526-2532.	3.2	21
23	Mortality of adult plaice, Pleuronectes platessa and sole, Solea solea discarded from English Channel beam trawlers. Fisheries Research, 2013, 147, 320-326.	1.7	20
24	Increasing codend mesh openings: an appropriate strategy for improving the selectivity of penaeid fishing gears in an Australian estuary?. Marine and Freshwater Research, 2005, 56, 889.	1.3	18
25	A better estimator of mortality rate from age-frequency data. Canadian Journal of Fisheries and Aquatic Sciences, 2015, 72, 364-375.	1.4	16
26	Utility of multiple escape gaps in Australian Scylla serrata traps. Fisheries Research, 2018, 204, 88-94.	1.7	16
27	Assessment of locally influential observations in Bayesian models. Bayesian Analysis, 2007, 2, .	3.0	14
28	Size selectivity of Korean flounder (Glyptocephalus stelleri) by gillnets and trammel nets using an extension of SELECT for experiments with differing mesh sizes. Fisheries Research, 2011, 107, 196-200.	1.7	14
29	A â€˜Simple Anterior Fish Excluderâ€™ (SAFE) for Mitigating Penaeid-Trawl Bycatch. PLoS ONE, 2015, 10, e0123124.	2.5	14
30	Intra-fleet variability in the size selectivity of a square-mesh trawl codend for school prawns (Metapenaeus macleayi). Fisheries Research, 2007, 86, 92-98.	1.7	13
31	Temporal hooking variability among sharks on south-eastern Australian demersal longlines and implications for their management. Global Ecology and Conservation, 2014, 2, 181-189.	2.1	13
32	Promising the moon? Evaluation of indigenous and lunar fishing calendars using semiparametric generalized mixed models of recreational catch data. Environmental and Ecological Statistics, 2013, 20, 591-608.	3.5	12
33	Fertilization success of the New Zealand geoduck,Panopea zelandica: Effects of sperm concentration, gamete age and contact time. Aquaculture Research, 2014, 45, 1380-1388.	1.8	12
34	A simple variance estimator for the trapezoidal area-under-the-curve estimator of the spawner abundance of Pacific salmon. Canadian Journal of Fisheries and Aquatic Sciences, 2013, 70, 1231-1239.	1.4	10
35	Configuring the Mesh Size, Side Taper and Wing Depth of Penaeid Trawls to Reduce Environmental Impacts. PLoS ONE, 2014, 9, e99434.	2.5	10
36	Sensitivity of Bayes Estimators to Hyper-Parameters with an Application to Maximum Yield from Fisheries. Biometrics, 2004, 60, 536-542.	1.4	9

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37	Nonlinear multivariate models of successional change in community structure using the von Bertalanffy curve. Oecologia, 2005, 146, 279-286.	2.0	9
38	Isolating selection mechanisms in beach seines. Fisheries Research, 2007, 88, 56-69.	1.7	9
39	Increasing lateral mesh openings in penaeid trawls to improve selection and reduce drag. Fisheries Research, 2015, 170, 68-75.	1.7	9
40	Remotely sensed habitat variables are poor surrogates for functional traits of rocky reef fish assemblages. Environmental Conservation, 2016, 43, 368-375.	1.3	9
41	Cumulative selectivity benefits of increasing mesh size and using escape gaps in Australian Portunus armatus traps. Fisheries Management and Ecology, 2019, 26, 319-326.	2.0	9
42	Introducing selfisher: open source software for statistical analyses of fishing gear selectivity. Canadian Journal of Fisheries and Aquatic Sciences, 2022, 79, 1189-1197.	1.4	9
43	Reliability of size-selectivity estimates from paired-trawl and covered-codend experiments. ICES Journal of Marine Science, 2010, 67, 530-536.	2.5	8
44	Effects of diel period and diurnal cloud cover on the species selection of short and long penaeid trawls. Fisheries Research, 2015, 170, 144-151.	1.7	8
45	Abundance of large toheroa (Paphies ventricosaGray) at Oreti Beach, 1971â€“90, estimated from twoâ€dimensional systematic samples. New Zealand Journal of Marine and Freshwater Research, 1995, 29, 93-99.	2.0	7
46	Atypical size selection of captive school prawns,Metapenaeus macleayi, by three recreational fishing gears in southâ€eastern Australia. New Zealand Journal of Marine and Freshwater Research, 2004, 38, 755-766.	2.0	7
47	Using a double codend to reduce discard mortality. ICES Journal of Marine Science, 2009, 66, 2077-2081.	2.5	7
48	Reducing the marine debris of recreational hoop nets in south-eastern Australia. Marine Pollution Bulletin, 2017, 119, 40-47.	5.0	7
49	Configuring escape gaps in recreational rectangular traps to improve size selection for eastern rock lobster, Sagmariasus verreauxi. Fisheries Research, 2018, 207, 182-186.	1.7	7
50	Motherâ€“embryo isotope fractionation in the pygmy devilray Mobula kuhlii cf. eregoodootenkee. Journal of Fish Biology, 2019, 95, 589-593.	1.6	7
51	The utility of square mesh to reduce bycatch in Hawkesbury River prawn trawls. Ecological Management and Restoration, 2004, 5, 221-225.	1.5	6
52	Title is missing!. Reviews in Fish Biology and Fisheries, 1999, 9, 117-118.	4.9	5
53	Automatic calculation of the sensitivity of Bayesian fisheries models to informative priors. Canadian Journal of Fisheries and Aquatic Sciences, 2005, 62, 1028-1036.	1.4	5
54	Relative benthic disturbances of conventional and novel otter boards. ICES Journal of Marine Science, 2015, 72, 2450-2456.	2.5	5

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55	Angling-Induced Barotrauma in Snapper Chrysophrys auratus: Are There Consequences for Reproduction?. PLoS ONE, 2015, 10, e0119158.	2.5	5
56	SIMULATED MAXIMUM LIKELIHOOD APPLIED TO NON-GAUSSIAN AND NONLINEAR MIXED EFFECTS AND STATE-SPACE MODELS. Australian and New Zealand Journal of Statistics, 2004, 46, 543-554.	0.9	4
57	Diamond- vs. square-mesh codend selectivity in southeastern Australian estuarine squid trawls. Fisheries Research, 2010, 102, 276-285.	1.7	4
58	Near-future oceanic CO2 delays development and growth in early-stage larvae of the endemic New Zealand sea urchin, Evechinus chloroticus. Marine Biology, 2021, 168, 1.	1.5	4
59	Abundance, distribution, and size structure of toheroa(Paphies ventricosa)at Ripiro Beach, Dargaville, Northland, New Zealand. New Zealand Journal of Marine and Freshwater Research, 2002, 36, 547-553.	2.0	3
60	A oneâ€stepâ€ahead pseudoâ€DIC for comparison of Bayesian stateâ€space models. Biometrics, 2014, 70, 972-980.	1.4	3
61	Further improvements in sorting grids for the crustacean trawl fishery off the Southern coast of Portugal. Fisheries Research, 2019, 219, 105329.	1.7	2
62	Shortâ€term mortality of trapped and discarded Portunus armatus following iceâ€slurry immersion. Fisheries Management and Ecology, 2018, 25, 350-355.	2.0	2
63	Effects of season and mesh size on the selection of narrow-barred Spanish mackerel, Scomberomorus commerson in the Persian Gulf artisanal gillnet fishery. Journal of the Marine Biological Association of the United Kingdom, 2020, 100, 1321-1325.	0.8	2
64	Damage and mortality of juvenile seabob shrimp (Xiphopenaeus kroyeri) discarded in a tropical artisanal trawl fishery. ICES Journal of Marine Science, 2016, 73, 2364-2369.	2.5	1
65	Relative benthic disturbances of conventional and novel otter boards and ground gears. Fisheries Science, 2020, 86, 245-254.	1.6	1
66	Size selectivity of the scallop fishery in the southern Gulf of St. Lawrence: Effects of ring size and washer type. Fisheries Research, 2021, 243, 106103.	1.7	1
67	Rachel Fewster: Recipient of NZSA Campbell Award 2018. Australian and New Zealand Journal of Statistics, 2019, 61, 397-400.	0.9	0
68	Comparison of catches and species composition for flounders caught using gillnets, gillnets with supporting lines, and trammel nets. Journal of the Korean Society of Fisheries Technology, 2014, 50, 1-11.	0.2	0