Douglas C Speirs

List of Publications by Year
in descending order

52 papers	1,895 citations	257101 24 h-index	264894 42 g-index
54 all docs	54 docs citations	54 times ranked	2361 citing authors

#	Article	IF	Citations
1	POPULATION PERSISTENCE IN RIVERS AND ESTUARIES. Ecology, 2001, 82, 1219-1237.	1.5	266
2	Understanding patterns and processes in models of trophic cascades. Ecology Letters, 2014, 17, 101-114.	3.0	123
3	Comparative ecology of over-wintering Calanus finmarchicus in the northern North Atlantic, and implications for life-cycle patterns. ICES Journal of Marine Science, 2004, 61, 698-708.	1.2	108
4	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
5	Ocean-scale modelling of the distribution, abundance, and seasonal dynamics of the copepod Calanus finmarchicus. Marine Ecology - Progress Series, 2006, 313, 173-192.	0.9	92
6	Making modelling count - increasing the contribution of shelf-seas community and ecosystem models to policy development and management. Marine Policy, 2015, 61, 291-302.	1.5	81
7	Cascading ecological effects of eliminating fishery discards. Nature Communications, 2014, 5, 3893.	5.8	70
8	A general framework for combining ecosystem models. Fish and Fisheries, 2018, 19, 1031-1042.	2.7	66
9	Parasitoid diets: Does superparasitism pay?. Trends in Ecology and Evolution, 1991, 6, 22-25.	4.2	65
10	Naupliar development times and survival of the copepods Calanus helgolandicus and Calanus finmarchicus in relation to food and temperature. Journal of Plankton Research, 2007, 29, 757-767.	0.8	60
11	Seasonal patterns of growth, expenditure and assimilation in juvenile Atlantic salmon. Journal of Animal Ecology, 2002, 71, 916-924.	1.3	59
12	A synthetic map of the north-west European Shelf sedimentary environment for applications in marine science. Earth System Science Data, 2018, 10, 109-130.	3.7	56
13	Fishery-induced changes to age and length dependent maturation schedules of three demersal fish species in the Firth of Clyde. Fisheries Research, 2015, 170, 14-23.	0.9	52
14	Spatial demography of Calanus finmarchicus in the Irminger Sea. Progress in Oceanography, 2008, 76, 39-88.	1.5	47
15	Modelling the basin-scale demography of Calanus finmarchicus in the north-east Atlantic. Fisheries Oceanography, 2005, 14, 333-358.	0.9	46
16	Global sensitivity analysis of an end-to-end marine ecosystem model of the North Sea: Factors affecting the biomass of fish and benthos. Ecological Modelling, 2014, 273, 251-263.	1.2	46
17	Combination of genetics and spatial modelling highlights the sensitivity of cod (Gadus morhua) population diversity in the North Sea to distributions of fishing. ICES Journal of Marine Science, 2014, 71, 794-807.	1.2	45
18	European sea bass, <i>Dicentrarchus labrax</i>, in a changing ocean. Biogeosciences, 2014, 11, 2519-2530.	1.3	39

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19	A length-structured partial ecosystem model for cod in the North Sea. Fisheries Research, 2010, 106, 474-494.	0.9	38
20	Changes in species diversity and size composition in the Firth of Clyde demersal fish community (1927â€“2009). Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 543-552.	1.2	32
21	Long-term demographic balance in the Broadstone stream insect community. Journal of Animal Ecology, 2000, 69, 45-58.	1.3	31
22	Energyscapes and prey fields shape a North Atlantic seabird wintering hotspot under climate change. Royal Society Open Science, 2018, 5, 171883.	1.1	31
23	Can a key boreal Calanus copepod species now complete its life-cycle in the Arctic? Evidence and implications for Arctic food-webs. Ambio, 2022, 51, 333-344.	2.8	30
24	On the surprising lack of differences between two congeneric calanoid copepod species, Calanus finmarchicus and C. helgolandicus. Progress in Oceanography, 2015, 134, 413-431.	1.5	28
25	Simulating spatially and physiologically structured populations. Journal of Animal Ecology, 2001, 70, 881-894.	1.3	27
26	Projected impacts of 21st century climate change on diapause in Calanus finmarchicus. Global Change Biology, 2016, 22, 3332-3340.	4.2	26
27	The swimming behaviour and distribution of Neomysis integer in relation to tidal flow. Journal of Experimental Marine Biology and Ecology, 1999, 242, 95-106.	0.7	19
28	Understanding demography in an advective environment: modelling Calanus finmarchicus in the Norwegian Sea. Journal of Animal Ecology, 2004, 73, 897-910.	1.3	19
29	Smooth age length keys: Observations and implications for data collection on North Sea haddock. Fisheries Research, 2010, 105, 2-12.	0.9	16
30	Population density and temperature correlate with long-term trends in somatic growth rates and maturation schedules of herring and sprat. PLoS ONE, 2019, 14, e0212176.	1.1	16
31	Calibrating remotely sensed chlorophyll-a data by using penalized regression splines. Journal of the Royal Statistical Society Series C: Applied Statistics, 2006, 55, 331-353.	0.5	14
32	Modelling sea level surges in the Firth of Clyde, a fjordic embayment in south-west Scotland. Natural Hazards, 2016, 84, 1601-1623.	1.6	14
33	The effect of viral plasticity on the persistence of host-virus systems. Journal of Theoretical Biology, 2020, 498, 110263.	0.8	13
34	Why do shallow-water predators migrate?. Journal of Experimental Marine Biology and Ecology, 2002, 280, 13-31.	0.7	12
35	Spatial Modeling of Calanus finmarchicus and Calanus helgolandicus: Parameter Differences Explain Differences in Biogeography. Frontiers in Marine Science, 2016, 3, .	1.2	12
36	Investigating trends in the growth of five demersal fish species from the Firth of Clyde and the wider western shelf of Scotland. Fisheries Research, 2016, 177, 71-81.	0.9	11

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37	The Unstable Seasonality of Calanus Finmarchicus in the Fair Isle Current. Journal of the Marine Biological Association of the United Kingdom, 1998, 78, 1377-1380.	0.4	10
38	Modelling the effects of fishing on the North Sea fish community size composition. Ecological Modelling, 2016, 321, 35-45.	1.2	10
39	Exploring the Influence of Food and Temperature on North Sea Sandeels Using a New Dynamic Energy Budget Model. Frontiers in Marine Science, 2018, 5, .	1.2	10
40	POPULATION PERSISTENCE IN RIVERS AND ESTUARIES. , 2001, 82, 1219.		10
41	Sea-Age Variation in Maiden Atlantic Salmon Spawners: Phenotypic Plasticity or Genetic Polymorphism?. Bulletin of Mathematical Biology, 2012, 74, 615-640.	0.9	9
42	S<scp>trath</scp>E2E2: An <scp>r</scp> package for modelling the dynamics of marine food webs and fisheries. Methods in Ecology and Evolution, 2021, 12, 280-287.	2.2	8
43	Ecosystem approach to harvesting in the Arctic: Walking the tightrope between exploitation and conservation in the Barents Sea. Ambio, 2021, , 1.	2.8	8
44	Trends in Sandeel Growth and Abundance off the East Coast of Scotland. Frontiers in Marine Science, 2019, 6, .	1.2	6
45	Early evidence of the impact of preindustrial fishing on fish stocks from the mid-west and southeast coastal fisheries of Scotland in the 19th century. ICES Journal of Marine Science, 2016, 73, 1404-1414.	1.2	5
46	Solid evidence or fluid ideas on the importance lipid phase transitions to diapausing copepods. Journal of Plankton Research, 2013, 35, 438-440.	0.8	4
47	Diet selection by common shrews Sorex araneus in a depleting environment. Behavioural Processes, 1993, 29, 65-84.	0.5	3
48	Modelling seabed sediment physical properties and organic matter content in the Firth of Clyde. Earth System Science Data, 2021, 13, 5847-5866.	3.7	3
49	Subtle Differences in the Representation of Consumer Dynamics Have Large Effects in Marine Food Web Models. Frontiers in Marine Science, 2021, 8, .	1.2	1
50	Timing of Sandeel Spawning and Hatching Off the East Coast of Scotland. Frontiers in Marine Science, 2019, 6, .	1.2	0
51	How Is Climate Change Affecting Marine Life in the Arctic?. Frontiers for Young Minds, 0, 8, .	0.8	0
52	Synthetic shelf sediment maps for the Greenland Sea and Barents Sea. Geoscience Data Journal, 0, , .	1.8	0