

Wendy C Gentleman

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,289
citations

471509

17
h-index

454955

30
g-index

33
all docs

33
docs citations

33
times ranked

1277
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional responses for zooplankton feeding on multiple resources: a review of assumptions and biological dynamics. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 2847-2875.	1.4	269
2	Bridging the gap between marine biogeochemical and fisheries sciences; configuring the zooplankton link. Progress in Oceanography, 2014, 129, 176-199.	3.2	146
3	Coupling of an individual-based population dynamic model of <i>Calanus finmarchicus</i> to a circulation model for the Georges Bank region. Fisheries Oceanography, 1998, 7, 219-234.	1.7	129
4	Biological/physical simulations of <i>Calanus finmarchicus</i> population dynamics in the Gulf of Maine. Marine Ecology - Progress Series, 1998, 169, 189-210.	1.9	91
5	Influence of grazing formulations on the emergent properties of a complex ecosystem model in a global ocean general circulation model. Progress in Oceanography, 2010, 87, 201-213.	3.2	72
6	Functional responses and ecosystem dynamics: how clearance rates explain the influence of satiation, food-limitation and acclimation. Journal of Plankton Research, 2008, 30, 1215-1231.	1.8	71
7	NUMERICAL SOLUTIONS OF SECOND ORDER IMPLICIT NON-LINEAR ORDINARY DIFFERENTIAL EQUATIONS. Journal of Sound and Vibration, 1996, 195, 553-574.	3.9	68
8	An adjoint data assimilation approach to diagnosis of physical and biological controls on <i>Pseudocalanus</i> spp. in the Gulf of Maine-Georges Bank region. Fisheries Oceanography, 1998, 7, 205-218.	1.7	58
9	Modelling dispersal of sea scallop (<i>Placopecten magellanicus</i>) larvae on Georges Bank: The influence of depth-distribution, planktonic duration and spawning seasonality. Progress in Oceanography, 2010, 87, 37-48.	3.2	45
10	Title is missing!. Hydrobiologia, 2002, 480, 69-85.	2.0	41
11	Modelling copepod development: current limitations and a new realistic approach. ICES Journal of Marine Science, 2008, 65, 399-413.	2.5	31
12	How transport shapes copepod distributions in relation to whale feeding habitat: Demonstration of a new modelling framework. Progress in Oceanography, 2019, 171, 1-21.	3.2	25
13	Evaluating the synopticity of the US GLOBEC Georges Bank broad-scale sampling pattern with observational system simulation experiments. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 483-499.	1.4	21
14	Modeling larval <i>Calanus finmarchicus</i> on Georges Bank: time-varying mortality rates and a cannibalism hypothesis. Fisheries Oceanography, 2009, 18, 147-160.	1.7	21
15	The threshold feeding response of microzooplankton within Pacific high-nitrate low-chlorophyll ecosystem models under steady and variable iron input. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 2877-2894.	1.4	20
16	How to build and use individual-based models (IBMs) as hypothesis testing tools. Journal of Marine Systems, 2010, 81, 122-133.	2.1	19
17	Ocean carbon sequestration: Particle fragmentation by copepods as a significant unrecognised factor?. BioEssays, 2020, 42, e2000149.	2.5	19
18	Explaining regional variability in copepod recruitment: Implications for a changing climate. Progress in Oceanography, 2010, 87, 94-105.	3.2	18

#	ARTICLE	IF	CITATIONS
19	EMPOWER-1.0: an Efficient Model of Planktonic ecosystems Written in R. Geoscientific Model Development, 2015, 8, 2231-2262.	3.6	18
20	Geometric Stoichiometry: Unifying Concepts of Animal Nutrition to Understand How Protein-Rich Diets Can Be "Too Much of a Good Thing". Frontiers in Ecology and Evolution, 2020, 8, .	2.2	17
21	Compilation and discussion of driver, pressure, and state indicators for the Grand Bank ecosystem, Northwest Atlantic. Ecological Indicators, 2017, 75, 331-339.	6.3	16
22	Impact of larval behaviors on dispersal and connectivity of sea scallop larvae over the northeast U.S. shelf. Progress in Oceanography, 2021, 195, 102604.	3.2	14
23	Ocean circulation changes drive shifts in Calanus abundance in North Atlantic right whale foraging habitat: A model comparison of cool and warm year scenarios. Progress in Oceanography, 2021, 197, 102629.	3.2	12
24	Explanatory Power of Human and Environmental Pressures on the Fish Community of the Grand Bank before and after the Biomass Collapse. Frontiers in Marine Science, 2018, 5, .	2.5	11
25	The legacy of Gordon Arthur Riley (1911-1985) and the development of mathematical models in biological oceanography. Journal of Marine Research, 2012, 70, 1-30.	0.3	8
26	Fisheries Closed Areas Strengthen Scallop Larval Settlement and Connectivity Among Closed Areas and Across International Open Fishing Grounds: A Model Study. Environmental Management, 2015, 56, 587-602.	2.7	8
27	Semi-annual spawning in marine scallops strengthens larval recruitment and connectivity on Georges Bank: a model study. Marine Ecology - Progress Series, 2014, 516, 209-227.	1.9	8
28	Variability of mortality rates for <i>Calanus finmarchicus</i> early life stages in the Labrador Sea and the significance of egg viability. Journal of Plankton Research, 0, , fbv080.	1.8	5
29	Considering non-predatory death in the estimation of copepod early life stage mortality and survivorship. Journal of Plankton Research, 2017, 39, 92-110.	1.8	4
30	Operational Limitations of Arctic Waste Stabilization Ponds: Insights from Modeling Oxygen Dynamics and Carbon Removal. Journal of Environmental Engineering, ASCE, 2018, 144, 04018038.	1.4	2
31	Modelling rates of random search over the transition from diffusive to ballistic movement of plankton. Journal of Plankton Research, 2017, 39, 815-825.	1.8	1
32	Remembering John Steele and his models for understanding the structure and function of marine ecosystems. Journal of Plankton Research, 2019, 41, 609-620.	1.8	1
33	Application of neural networks to model changes in fish community biomass in relation to pressure indicators and comparison with a linear approach. Canadian Journal of Fisheries and Aquatic Sciences, 2020, 77, 963-977.	1.4	0