# Wendy C Gentleman

List of Publications by Year
in descending order



| 33 | 1,289 | 471061 17 | 454577 30 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 33 | 33 | 33 | 1277 |
|---|---|---|---|
| all docs | docs citations | times ranked | 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. | 0.6 | 269 |
| 2 | Bridging the gap between marine biogeochemical and fisheries sciences; configuring the zooplankton link. Progress in Oceanography, 2014, 129, 176-199. | 1.5 | 146 |
| 3 | Coupling of an individualâ€based population dynamic model of Calanus finmarchicus to a circulation model for the Georges Bank region. Fisheries Oceanography, 1998, 7, 219-234. | 0.9 | 129 |
| 4 | Biological/physical simulations of Calanus finmarchicus population dynamics in the Gulf of Maine. Marine Ecology - Progress Series, 1998, 169, 189-210. | 0.9 | 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. | 1.5 | 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. | 0.8 | 71 |
| 7 | NUMERICAL SOLUTIONS OF SECOND ORDER IMPLICIT NON-LINEAR ORDINARY DIFFERENTIAL EQUATIONS. Journal of Sound and Vibration, 1996, 195, 553-574. | 2.1 | 68 |
| 8 | An adjoint data assimilation approach to diagnosis of physical and biological controls onPseudocalanusspp. in the Gulf of Maineâ€“Georges Bank region. Fisheries Oceanography, 1998, 7, 205-218. | 0.9 | 58 |
| 9 | Modelling dispersal of sea scallop (Placopecten magellanicus) larvae on Georges Bank: The influence of depth-distribution, planktonic duration and spawning seasonality. Progress in Oceanography, 2010, 87, 37-48. | 1.5 | 45 |
| 10 | Title is missing!. Hydrobiologia, 2002, 480, 69-85. | 1.0 | 41 |
| 11 | Modelling copepod development: current limitations and a new realistic approach. ICES Journal of Marine Science, 2008, 65, 399-413. | 1.2 | 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. | 1.5 | 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. | 0.6 | 21 |
| 14 | Modeling larval Calanus finmarchicus on Georges Bank: timeâ€varying mortality rates and a cannibalism hypothesis. Fisheries Oceanography, 2009, 18, 147-160. | 0.9 | 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. | 0.6 | 20 |
| 16 | How to build and use individual-based models (IBMs) as hypothesis testing tools. Journal of Marine Systems, 2010, 81, 122-133. | 0.9 | 19 |
| 17 | Ocean carbon sequestration: Particle fragmentation by copepods as a significant unrecognised factor?. BioEssays, 2020, 42, e2000149. | 1.2 | 19 |
| 18 | Explaining regional variability in copepod recruitment: Implications for a changing climate. Progress in Oceanography, 2010, 87, 94-105. | 1.5 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | EMPOWER-1.0: an Efficient Model of Planktonic ecOsystems WrittEn in R. Geoscientific Model Development, 2015, 8, 2231-2262. | 1.3 | 18 |
| 20 | Geometric Stoichiometry: Unifying Concepts of Animal Nutrition to Understand How Protein-Rich Diets Can Be â€œToo Much of a Good Thingâ€• Frontiers in Ecology and Evolution, 2020, 8, . | 1.1 | 17 |
| 21 | Compilation and discussion of driver, pressure, and state indicators for the Grand Bank ecosystem, Northwest Atlantic. Ecological Indicators, 2017, 75, 331-339. | 2.6 | 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. | 1.5 | 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. | 1.5 | 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, . | 1.2 | 11 |
| 25 | The legacy of Gordon Arthur Riley (1911â€“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. | 1.2 | 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. | 0.9 | 8 |
| 28 | Variability of mortality rates forCalanus finmarchicusearly life stages in the Labrador Sea and the significance of egg viability. Journal of Plankton Research, 0, , fbv080. | 0.8 | 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. | 0.8 | 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. | 0.7 | 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. | 0.8 | 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. | 0.8 | 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. | 0.7 | 0 |