Daniel J Mayor

List of Publications by Year
in descending order

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72 papers	2,830 citations	172207 29 h-index	189595 50 g-index
75 all docs	75 docs citations	75 times ranked	3698 citing authors

#	Article	IF	Citations
1	Hadal trenches: the ecology of the deepest places on Earth. Trends in Ecology and Evolution, 2010, 25, 190-197.	4.2	307
2	Reconciliation of the carbon budget in the oceanâ€™s twilight zone. Nature, 2014, 507, 480-483.	13.7	307
3	Toward the Integrated Marine Debris Observing System. Frontiers in Marine Science, 2019, 6, .	1.2	178
4	Diatom carbon export enhanced by silicate upwelling in the northeast Atlantic. Nature, 2005, 437, 728-732.	13.7	153
5	CO2-induced acidification affects hatching success in Calanus finmarchicus. Marine Ecology - Progress Series, 2007, 350, 91-97.	0.9	133
6	Microbial gardening in the ocean's twilight zone: Detritivorous metazoans benefit from fragmenting, rather than ingesting, sinking detritus. BioEssays, 2014, 36, 1132-1137.	1.2	84
7	Carbon on the Northwest European Shelf: Contemporary Budget and Future Influences. Frontiers in Marine Science, 2020, 7, .	1.2	70
8	End of century ocean warming and acidification effects on reproductive success in a temperate marine copepod. Journal of Plankton Research, 2012, 34, 258-262.	0.8	67
9	Quantifying carbon fluxes from primary production to mesopelagic fish using a simple food web model. ICES Journal of Marine Science, 2019, 76, 690-701.	1.2	66
10	Terrestrial dissolved organic matter distribution in the North Sea. Science of the Total Environment, 2018, 630, 630-647.	3.9	64
11	Microbial Community Diversity Within Sediments from Two Geographically Separated Hadal Trenches. Frontiers in Microbiology, 2019, 10, 347.	1.5	59
12	Community structure and diversity of scavenging amphipods from bathyal to hadal depths in three South Pacific Trenches. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 111, 121-137.	0.6	58
13	Absorption efficiencies and basal turnover of C, N and fatty acids in a marine Calanoid copepod. Functional Ecology, 2011, 25, 509-518.	1.7	56
14	Feeding of Calanus finmarchicus and Oithona similis on the microplankton assemblage in the Irminger Sea, North Atlantic. Journal of Plankton Research, 2008, 30, 1095-1116.	0.8	55
15	The metabolic response of marine copepods to environmental warming and ocean acidification in the absence of food. Scientific Reports, 2015, 5, 13690.	1.6	50
16	Spatial demography of Calanus finmarchicus in the Irminger Sea. Progress in Oceanography, 2008, 76, 39-88.	1.5	47
17	Resource quality affects carbon cycling in deep-sea sediments. ISME Journal, 2012, 6, 1740-1748.	4.4	46
18	Feeding and reproduction of Calanus finmarchicus during non-bloom conditions in the Irminger Sea. Journal of Plankton Research, 2006, 28, 1167-1179.	0.8	43

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19	Habitat partitioning in Antarctic krill: Spawning hotspots and nursery areas. PLoS ONE, 2019, 14, e0219325.	1.1	43
20	High export via small particles before the onset of the <scp>N</scp>orth <scp>A</scp>tlantic spring bloom. Journal of Geophysical Research: Oceans, 2016, 121, 6929-6945.	1.0	41
21	Acute toxicity of some treatments commonly used by the salmonid aquaculture industry to Corophium volutator and Hediste diversicolor: Whole sediment bioassay tests. Aquaculture, 2008, 285, 102-108.	1.7	40
22	Egg production and associated losses of carbon, nitrogen and fatty acids from maternal biomass in Calanus finmarchicus before the spring bloom. Journal of Marine Systems, 2009, 78, 505-510.	0.9	36
23	Seasonal variation of zooplankton community structure and trophic position in the Celtic Sea: A stable isotope and biovolume spectrum approach. Progress in Oceanography, 2019, 177, 101943.	1.5	36
24	Controls over Ocean Mesopelagic Interior Carbon Storage (COMICS): Fieldwork, Synthesis, and Modeling Efforts. Frontiers in Marine Science, 2016, 3, .	1.2	35
25	Metal-Macrofauna Interactions Determine Microbial Community Structure and Function in Copper Contaminated Sediments. PLoS ONE, 2013, 8, e64940.	1.1	35
26	Sensitivity of secondary production and export flux to choice of trophic transfer formulation in marine ecosystem models. Journal of Marine Systems, 2013, 125, 41-53.	0.9	34
27	Hydrocarbon contamination affects deep-sea benthic oxygen uptake and microbial community composition. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 100, 79-87.	0.6	34
28	Hydrostatic Pressure and Temperature Effects on the Membranes of a Seasonally Migrating Marine Copepod. PLoS ONE, 2014, 9, e111043.	1.1	33
29	Unified concepts for understanding and modelling turnover of dissolved organic matter from freshwaters to the ocean: the UniDOM model. Biogeochemistry, 2019, 146, 105-123.	1.7	33
30	Factors Affecting Benthic Impacts at Scottish Fish Farms. Environmental Science & Technology, 2010, 44, 2079-2084.	4.6	30
31	Feeding strategies of deep-sea sub-Arctic macrofauna of the Faroe-Shetland Channel: Combining natural stable isotopes and enrichment techniques. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 160-172.	0.6	30
32	Wax ester composition influences the diapause patterns in the copepod Calanoides acutus. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 59-60, 93-104.	0.6	30
33	An approach for the identification of exemplar sites for scaling up targeted field observations of benthic biogeochemistry in heterogeneous environments. Biogeochemistry, 2017, 135, 1-34.	1.7	30
34	High prey-predator size ratios and unselective feeding in copepods: A seasonal comparison of five species with contrasting feeding modes. Progress in Oceanography, 2018, 165, 63-74.	1.5	30
35	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
36	Will Invertebrates Require Increasingly Carbon-Rich Food in a Warming World?. American Naturalist, 2017, 190, 725-742.	1.0	28

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37	The Role of Microbes in the Nutrition of Detritivorous Invertebrates: A Stoichiometric Analysis. Frontiers in Microbiology, 2016, 7, 2113.	1.5	26
38	Landscape controls on riverine export of dissolved organic carbon from Great Britain. Biogeochemistry, 2023, 164, 163-184.	1.7	26
39	Resource Quantity Affects Benthic Microbial Community Structure and Growth Efficiency in a Temperate Intertidal Mudflat. PLoS ONE, 2012, 7, e38582.	1.1	24
40	Growth and mortality of coccolithophores during spring in a temperate Shelf Sea (Celtic Sea, April) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	23
41	Oxygen dynamics in shelf seas sediments incorporating seasonal variability. Biogeochemistry, 2017, 135, 35-47.	1.7	22
42	Complex interactions mediate the effects of fish farming on benthic chemistry within a region of Scotland. Environmental Research, 2011, 111, 635-642.	3.7	20
43	Ocean carbon sequestration: Particle fragmentation by copepods as a significant unrecognised factor?. BioEssays, 2020, 42, e2000149.	1.2	19
44	Population structure of the hadal amphipod Bathycallisoma (Scopelocheirus) schellenbergi in the Kermadec Trench and New Hebrides Trench, SW Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 155, 50-60.	0.6	17
45	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
46	Processing of 13C-labelled diatoms by a bathyal community at sub-zero temperatures. Marine Ecology - Progress Series, 2011, 421, 39-50.	0.9	17
47	Limitation of egg production in Calanus finmarchicus in the field: A stoichiometric analysis. Journal of Marine Systems, 2009, 78, 511-517.	0.9	16
48	Respiration of mesopelagic fish: a comparison of respiratory electron transport system (ETS) measurements and allometrically calculated rates in the Southern Ocean and Benguela Current. ICES Journal of Marine Science, 2020, 77, 1672-1684.	1.2	12
49	Contrasting Estuarine Processing of Dissolved Organic Matter Derived From Natural and Humanâ€Impacted Landscapes. Global Biogeochemical Cycles, 2021, 35, e2021GB007023.	1.9	12
50	Elevated iron to nitrogen recycling by mesozooplankton in the Northeast Atlantic Ocean. Geophysical Research Letters, 2012, 39, .	1.5	10
51	Temperatureâ€“Induced Hatch Failure and Nauplii Malformation in Antarctic Krill. Frontiers in Marine Science, 2020, 7, .	1.2	10
52	The Influence of the Toxin Producing Dinoflagellate, Alexandrium catenella (1119/27), on the Feeding and Survival of the Marine Copepod, Acartia tonsa. Harmful Algae, 2020, 98, 101890.	2.2	10
53	Conversion of Forest to Agriculture Increases Colored Dissolved Organic Matter in a Subtropical Catchment and Adjacent Coastal Environment. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006295.	1.3	10
54	Tissue and size-related changes in the fatty acid and stable isotope signatures of the deep sea grenadier fish Coryphaenoides armatus from the Charlie-Gibbs Fracture Zone region of the Mid-Atlantic Ridge. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 98, 421-430.	0.6	9

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55	Detecting the presence of fish farm-derived organic matter at the seafloor using stable isotope analysis of phospholipid fatty acids. Scientific Reports, 2017, 7, 5146.	1.6	9
56	The Possession of Coccoliths Fails to Deter Microzooplankton Grazers. Frontiers in Marine Science, 2020, 7, .	1.2	8
57	Effects of copper and the sea lice treatment SliceÂ® on nutrient release from marine sediments. Marine Pollution Bulletin, 2009, 58, 552-558.	2.3	7
58	Shelf Sea Biogeochemistry: Nutrient and carbon cycling in a temperate shelf sea water column. Progress in Oceanography, 2019, 177, 102182.	1.5	7
59	Is the growth of marine copepods limited by food quantity or quality?. Limnology and Oceanography Letters, 2021, 6, 127-133.	1.6	7
60	Quantifying the resuspension of nutrients and sediment by demersal trawling. Continental Shelf Research, 2022, 233, 104628.	0.9	7
61	Trophic interactions of megafauna in the Mariana and Kermadec trenches inferred from stable isotope analysis. Deep-Sea Research Part I: Oceanographic Research Papers, 2020, 164, 103360.	0.6	6
62	The Influence of the Toxin-Producing Dinoflagellate, Alexandrium catenella (1119/27), on the Survival and Reproduction of the Marine Copepod, Acartia tonsa, During Prolonged Exposure. Frontiers in Marine Science, 2021, 8, .	1.2	6
63	Microbiota: The Living Foundation. , 2018, , 43-61.		4
64	Deuterium in marine organic biomarkers: toward a new tool for quantifying aquatic mixotrophy. New Phytologist, 2022, 234, 776-782.	3.5	4
65	Environmental drivers of a decline in a coastal zooplankton community. ICES Journal of Marine Science, 2022, 79, 844-854.	1.2	3
66	Red Pigmentation Can Be Used to Reliably Distinguish Between Live Calanus finmarchicus and Calanus glacialis Females in the Fram Strait. Frontiers in Marine Science, 0, 9, .	1.2	3
67	Reprint of: High prey-predator size ratios and unselective feeding in copepods: A seasonal comparison of five species with contrasting feeding modes. Progress in Oceanography, 2019, 177, 102039.	1.5	2
68	Marine Copepods, The Wildebeest of the Ocean. Frontiers for Young Minds, 0, 8, .	0.8	2
69	Biomass Turnover Rates in Metabolically Active and Inactive Marine Calanoid Copepods. Frontiers in Marine Science, 0, 9, .	1.2	2
70	Biogeochemistry, macronutrient and carbon cycling in the benthic layer, NERC. Impact, 2017, 2017, 11-15.	0.0	1
71	Carbon and Lipid Contents of the Copepod Calanus finmarchicus Entering Diapause in the Fram Strait and Their Contribution to the Boreal and Arctic Lipid Pump. Frontiers in Marine Science, 0, 9, .	1.2	1
72	The metabolic response of marine copepods (Calanus spp.) to food deprivation, end-of-century ocean acidification, and global warming scenarios. , 2022, , 153-166.		0