

# Frédéric Maps

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

781  
citations

471509

17  
h-index

552781

26  
g-index

35  
all docs

35  
docs citations

35  
times ranked

737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning techniques to characterize functional traits of plankton from image data. <i>Limnology and Oceanography</i> , 2022, 67, 1647-1669.	3.1	28
2	Functional trait-based approaches as a common framework for aquatic ecologists. <i>Limnology and Oceanography</i> , 2021, 66, 965-994.	3.1	99
3	Trait-based approach using in situ copepod images reveals contrasting ecological patterns across an Arctic ice melt zone. <i>Limnology and Oceanography</i> , 2021, 66, 1155-1167.	3.1	30
4	Ocean circulation changes drive shifts in <i>Calanus</i> abundance in North Atlantic right whale foraging habitat: A model comparison of cool and warm year scenarios. <i>Progress in Oceanography</i> , 2021, 197, 102629.	3.2	12
5	Timing of <i>Calanus finmarchicus</i> diapause in stochastic environments. <i>Ecological Modelling</i> , 2021, 460, 109739.	2.5	3
6	Marine ecosystems model development should be rooted in past experiences, not anchored in old habits. <i>ICES Journal of Marine Science</i> , 2020, 77, 46-57.	2.5	2
7	Influence of Deep-Water Corals and Sponge Gardens on Infaunal Community Composition and Ecosystem Functioning in the Eastern Canadian Arctic. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	6
8	Arctic and Nordic krill circuits of production revealed by the interactions between their physiology, swimming behaviour and circulation. <i>Progress in Oceanography</i> , 2020, 182, 102270.	3.2	3
9	Spatial distribution of epifaunal communities in the Hudson Bay system. <i>Elementa</i> , 2020, 8, .	3.2	5
10	Contrasting pelagic ecosystem functioning in eastern and western Baffin Bay revealed by trophic network modeling. <i>Elementa</i> , 2020, 8, .	3.2	15
11	Individual-based modeling explains the contrasted seasonality in size, growth, and reproduction of the sympatric Arctic ( <i>Thysanoessa raschii</i> ) and Nordic krill ( <i>Meganyctiphanes norvegica</i> ) in the St. Lawrence Estuary, eastern Canada. <i>Limnology and Oceanography</i> , 2019, 64, 217-237.	3.1	6
12	How transport shapes copepod distributions in relation to whale feeding habitat: Demonstration of a new modelling framework. <i>Progress in Oceanography</i> , 2019, 171, 1-21.	3.2	25
13	Lipid load triggers migration to diapause in Arctic <i>Calanus</i> copepods—insights from underwater imaging. <i>Journal of Plankton Research</i> , 2018, 40, 311-325.	1.8	39
14	Unraveling the intricate dynamics of planktonic Arctic marine food webs. A sensitivity analysis of a well-documented food web model. <i>Progress in Oceanography</i> , 2018, 160, 167-185.	3.2	14
15	Modelling dimethylsulfide diffusion in the algal external boundary layer: implications for mutualistic and signalling roles. <i>Environmental Microbiology</i> , 2018, 20, 4157-4169.	3.8	8
16	Copepod diapause and the biogeography of the marine lipid landscape. <i>Journal of Biogeography</i> , 2018, 45, 2238-2251.	3.0	37
17	Carbonate Disequilibrium in the External Boundary Layer of Freshwater Chrysophytes: Implications for Contaminant Uptake. <i>Environmental Science &amp; Technology</i> , 2018, 52, 9403-9411.	10.0	11
18	Le concept d'approche écosystémique appliquée à l'estuaire maritime du Saint-Laurent (Canada). <i>Environmental Reviews</i> , 2017, 25, 26-96.	4.5	4

#	ARTICLE	IF	CITATIONS
19	Oxygen depletion in subarctic peatland thaw lakes. <i>Arctic Science</i> , 2017, 3, 406-428.	2.3	19
20	Impacts of Intraguild Predation on Arctic Copepod Communities. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	7
21	Linking acoustics and finite-time Lyapunov exponents reveals areas and mechanisms of krill aggregation within the Gulf of St. Lawrence, eastern Canada. <i>Limnology and Oceanography</i> , 2015, 60, 1965-1975.	3.1	16
22	Persistence of <i>Calanus finmarchicus</i> in the western Gulf of Maine during recent extreme warming. <i>Journal of Plankton Research</i> , 2015, 37, 221-232.	1.8	42
23	Daytime depth and thermal habitat of two sympatric krill species in response to surface salinity variability in the Gulf of St Lawrence, eastern Canada. <i>ICES Journal of Marine Science</i> , 2014, 71, 272-281.	2.5	21
24	Modelling the influence of daytime distribution on the transport of two sympatric krill species ( <i>Thysanoessa raschii</i> and <i>Meganyctiphanes norvegica</i> ) in the Gulf of St Lawrence, eastern Canada. <i>ICES Journal of Marine Science</i> , 2014, 71, 282-292.	2.5	17
25	Plankton post-paradox: reply to comment on "The paradox of the paradox of the plankton" by Record et al.. <i>ICES Journal of Marine Science</i> , 2014, 71, 296-298.	2.5	5
26	A metabolic approach to dormancy in pelagic copepods helps explaining inter- and intra-specific variability in life-history strategies. <i>Journal of Plankton Research</i> , 2014, 36, 18-30.	1.8	54
27	The paradox of the "paradox of the plankton". <i>ICES Journal of Marine Science</i> , 2014, 71, 236-240.	2.5	33
28	Emergent copepod communities in an adaptive trait-structured model. <i>Ecological Modelling</i> , 2013, 260, 11-24.	2.5	23
29	First principles of copepod development help explain global marine diversity patterns. <i>Oecologia</i> , 2012, 170, 289-295.	2.0	12
30	A generalized approach for simulating growth and development in diverse marine copepod species. <i>ICES Journal of Marine Science</i> , 2012, 69, 370-379.	2.5	18
31	Modelling the timing and duration of dormancy in populations of <i>Calanus finmarchicus</i> from the Northwest Atlantic shelf. <i>Journal of Plankton Research</i> , 2012, 34, 36-54.	1.8	42
32	Modeling the interactions between the seasonal and diel migration behaviors of <i>Calanus finmarchicus</i> and the circulation in the Gulf of St. Lawrence (Canada). <i>Journal of Marine Systems</i> , 2011, 88, 183-202.	2.1	34
33	Control of dormancy by lipid metabolism in <i>Calanus finmarchicus</i> : a population model test. <i>Marine Ecology - Progress Series</i> , 2010, 403, 165-180.	1.9	37
34	Mortality and survival in early stages control recruitment in <i>Calanus finmarchicus</i> . <i>Journal of Plankton Research</i> , 2009, 31, 371-388.	1.8	34
35	Egg production and hatching success of <i>Temora longicornis</i> (Copepoda, Calanoida) in the southern Gulf of St. Lawrence. <i>Marine Ecology - Progress Series</i> , 2005, 285, 117-128.	1.9	20