FrÃ©dÃ©ric Maps

List of Publications by Year
in descending order

35 papers	781 citations	471061 17 h-index	552369 26 g-index
35 all docs	35 docs citations	35 times ranked	737 citing authors

#	Article	IF	Citations
1	Functional traitâ€based approaches as a common framework for aquatic ecologists. Limnology and Oceanography, 2021, 66, 965-994.	1.6	99
2	A metabolic approach to dormancy in pelagic copepods helps explaining inter- and intra-specific variability in life-history strategies. Journal of Plankton Research, 2014, 36, 18-30.	0.8	54
3	Modelling the timing and duration of dormancy in populations of Calanus finmarchicus from the Northwest Atlantic shelf. Journal of Plankton Research, 2012, 34, 36-54.	0.8	42
4	Persistence of Calanus finmarchicus in the western Gulf of Maine during recent extreme warming. Journal of Plankton Research, 2015, 37, 221-232.	0.8	42
5	Lipid load triggers migration to diapause in Arctic Calanus copepodsâ€"insights from underwater imaging. Journal of Plankton Research, 2018, 40, 311-325.	0.8	39
6	Copepod diapause and the biogeography of the marine lipidscape. Journal of Biogeography, 2018, 45, 2238-2251.	1.4	37
7	Control of dormancy by lipid metabolism in Calanus finmarchicus: a population model test. Marine Ecology - Progress Series, 2010, 403, 165-180.	0.9	37
8	Mortality and survival in early stages control recruitment in Calanus finmarchicus. Journal of Plankton Research, 2009, 31, 371-388.	0.8	34
9	Modeling the interactions between the seasonal and diel migration behaviors of Calanus finmarchicus and the circulation in the Gulf of St. Lawrence (Canada). Journal of Marine Systems, 2011, 88, 183-202.	0.9	34
10	The paradox of the â€œparadox of the planktonâ€• ICES Journal of Marine Science, 2014, 71, 236-240.	1.2	33
11	Traitâ€based approach using in situ copepod images reveals contrasting ecological patterns across an Arctic ice melt zone. Limnology and Oceanography, 2021, 66, 1155-1167.	1.6	30
12	Machine learning techniques to characterize functional traits of plankton from image data. Limnology and Oceanography, 2022, 67, 1647-1669.	1.6	28
13	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
14	Emergent copepod communities in an adaptive trait-structured model. Ecological Modelling, 2013, 260, 11-24.	1.2	23
15	Daytime depth and thermal habitat of two sympatric krill species in response to surface salinity variability in the Gulf of St Lawrence, eastern Canada. ICES Journal of Marine Science, 2014, 71, 272-281.	1.2	21
16	Egg production and hatching success of Temora longicornis (Copepoda, Calanoida) in the southern Gulf of St. Lawrence. Marine Ecology - Progress Series, 2005, 285, 117-128.	0.9	20
17	Oxygen depletion in subarctic peatland thaw lakes. Arctic Science, 2017, 3, 406-428.	0.9	19
18	A generalized approach for simulating growth and development in diverse marine copepod species. ICES Journal of Marine Science, 2012, 69, 370-379.	1.2	18

#	Article	IF	Citations
19	Modelling the influence of daytime distribution on the transport of two sympatric krill species (Thysanoessa raschii and Meganyctiphanes norvegica) in the Gulf of St Lawrence, eastern Canada. ICES Journal of Marine Science, 2014, 71, 282-292.	1.2	17
20	Linking acoustics and finiteâ€time <scp>L</scp>yapunov exponents reveals areas and mechanisms of krill aggregation within the <scp>G</scp>ulf of <scp>S</scp>t. <scp>L</scp>awrence, eastern <scp>C</scp>anada. Limnology and Oceanography, 2015, 60, 1965-1975.	1.6	16
21	Contrasting pelagic ecosystem functioning in eastern and western Baffin Bay revealed by trophic network modeling. Elementa, 2020, 8, .	1.1	15
22	Unraveling the intricate dynamics of planktonic Arctic marine food webs. A sensitivity analysis of a well-documented food web model. Progress in Oceanography, 2018, 160, 167-185.	1.5	14
23	First principles of copepod development help explain global marine diversity patterns. Oecologia, 2012, 170, 289-295.	0.9	12
24	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
25	Carbonate Disequilibrium in the External Boundary Layer of Freshwater Chrysophytes: Implications for Contaminant Uptake. Environmental Science & Technology, 2018, 52, 9403-9411.	4.6	11
26	Modelling dimethylsulfide diffusion in the algal external boundary layer: implications for mutualistic and signalling roles. Environmental Microbiology, 2018, 20, 4157-4169.	1.8	8
27	Impacts of Intraguild Predation on Arctic Copepod Communities. Frontiers in Marine Science, 2016, 3, .	1.2	7
28	Individualâ€based modeling explains the contrasted seasonality in size, growth, and reproduction of the sympatric Arctic (<scp>Thysanoessa raschii</scp>) and Nordic krill (<scp>Meganyctiphanes norvegica</scp>) in the St. Lawrence Estuary, eastern Canada. Limnology and Oceanography, 2019, 64, 217-237.	1.6	6
29	Influence of Deep-Water Corals and Sponge Gardens on Infaunal Community Composition and Ecosystem Functioning in the Eastern Canadian Arctic. Frontiers in Marine Science, 2020, 7, .	1.2	6
30	Plankton post-paradox: reply to comment on â€œThe paradox of the â€˜paradox of the planktonâ€™â€•by Record et al.. ICES Journal of Marine Science, 2014, 71, 296-298.	1.2	5
31	Spatial distribution of epifaunal communities in the Hudson Bay system. Elementa, 2020, 8, .	1.1	5
32	Le concept dâ€™approche Ã©cosystÃ©mique appliquÃ© Ã lâ€™estuaire maritime du Saint-Laurent (Canada). Environmental Reviews, 2017, 25, 26-96.	2.1	4
33	Arctic and Nordic krill circuits of production revealed by the interactions between their physiology, swimming behaviour and circulation. Progress in Oceanography, 2020, 182, 102270.	1.5	3
34	Timing of Calanus finmarchicus diapause in stochastic environments. Ecological Modelling, 2021, 460, 109739.	1.2	3
35	Marine ecosystems model development should be rooted in past experiences, not anchored in old habits. ICES Journal of Marine Science, 2020, 77, 46-57.	1.2	2