

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	Functional trait-based approaches as a common framework for aquatic ecologists. <i>Limnology and Oceanography</i> , 2021, 66, 965-994.	3.1	99
2	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
3	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
4	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
5	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
6	Copepod diapause and the biogeography of the marine lipidscape. <i>Journal of Biogeography</i> , 2018, 45, 2238-2251.	3.0	37
7	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
8	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
9	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
10	The paradox of the “paradox of the plankton”. <i>ICES Journal of Marine Science</i> , 2014, 71, 236-240.	2.5	33
11	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
12	Machine learning techniques to characterize functional traits of plankton from image data. <i>Limnology and Oceanography</i> , 2022, 67, 1647-1669.	3.1	28
13	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
14	Emergent copepod communities in an adaptive trait-structured model. <i>Ecological Modelling</i> , 2013, 260, 11-24.	2.5	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. <i>ICES Journal of Marine Science</i> , 2014, 71, 272-281.	2.5	21
16	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
17	Oxygen depletion in subarctic peatland thaw lakes. <i>Arctic Science</i> , 2017, 3, 406-428.	2.3	19
18	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

#	ARTICLE	IF	CITATIONS
19	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. ICES Journal of Marine Science, 2014, 71, 282-292.	2.5	17
20	Linking acoustics and finite-time Lyapunov exponents reveals areas and mechanisms of krill aggregation within the Gulf of St. Lawrence, eastern Canada. Limnology and Oceanography, 2015, 60, 1965-1975.	3.1	16
21	Contrasting pelagic ecosystem functioning in eastern and western Baffin Bay revealed by trophic network modeling. Elementa, 2020, 8, .	3.2	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.	3.2	14
23	First principles of copepod development help explain global marine diversity patterns. Oecologia, 2012, 170, 289-295.	2.0	12
24	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. Progress in Oceanography, 2021, 197, 102629.	3.2	12
25	Carbonate Disequilibrium in the External Boundary Layer of Freshwater Chrysophytes: Implications for Contaminant Uptake. Environmental Science & Technology, 2018, 52, 9403-9411.	10.0	11
26	Modelling dimethylsulfide diffusion in the algal external boundary layer: implications for mutualistic and signalling roles. Environmental Microbiology, 2018, 20, 4157-4169.	3.8	8
27	Impacts of Intraguild Predation on Arctic Copepod Communities. Frontiers in Marine Science, 2016, 3, .	2.5	7
28	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. Limnology and Oceanography, 2019, 64, 217-237.	3.1	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, .	2.5	6
30	Plankton post-paradox: reply to comment on "The paradox of the paradox of the plankton" by Record et al.. ICES Journal of Marine Science, 2014, 71, 296-298.	2.5	5
31	Spatial distribution of epifaunal communities in the Hudson Bay system. Elementa, 2020, 8, .	3.2	5
32	Le concept d'approche écosystémique appliquée à l'estuaire maritime du Saint-Laurent (Canada). Environmental Reviews, 2017, 25, 26-96.	4.5	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.	3.2	3
34	Timing of <i>Calanus finmarchicus</i> diapause in stochastic environments. Ecological Modelling, 2021, 460, 109739.	2.5	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.	2.5	2