



## Ecology of Sea Ice Algae

Guest Editor:

**Dr. Lars Chresten Lund-Hansen**

Arctic Research Center and  
Aquatic Biology, Bioscience,  
Aarhus University, Ny Munkegade  
114, 8000 Aarhus C, Denmark

Deadline for manuscript  
submissions:

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### Message from the Guest Editor

Sea ice algae play a significant and important role in polar regions. They are the only carbon source in the food chain during the ice-covered spring period in which light increases, though also regulated by the snow cover. The question is: how can low-light-adapted ice algae cope with the foreseen decrease in snow cover thickness and increased light transmittances? What are the effects of these factors on the ecology of sea ice algae and their trophic importance regarding decreasing sea ice extent? What is the importance of sea ice algae in the exchange of CO<sub>2</sub> between atmosphere, sea ice, and water? There is a need for ice algae-sympagic biota interactions and more detailed studies of sympagic–pelagic–benthic couplings. The purpose of the invited Special Issue is to publish new research with a focus on the ecological role of sea ice algae and their ecology.

The Special Issue will publish high-quality papers on the following topics from both the Arctic and Antarctica:

- Trophic relations;
- Adaptation strategies;
- Modelling;
- New techniques;
- Seeding by ice algae;
- Ice algae and bacteria;
- Extreme environment.





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School of Engineering, The UWA  
Oceans Institute, The University  
of Western Australia, Perth, WA  
6009, Australia

## Message from the Editor-in-Chief

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*Journal of Marine Science and  
Engineering* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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