# **Special Issue**

# Marine Optical Biogeochemistry: The Chemistry of Ocean Color

## Message from the Guest Editor

Knowledge on light interactions with individual particles, dissolved matter or simply on bulk seawater provides a breadth of information on ocean biogeochemical properties. Inherent and apparent optical properties of seawater and its individual marine components are related to their biogeochemical properties—for instance, backscattering coefficients magnitude and spectral signature provide information on particle size distribution and particulate organic carbon concentration and have also been used to derive information on phytoplankton functional groups. This information can help to constrain carbon export/cycle and further understand the biological pump. When scaled up to satellite observations of ocean color, knowledge on marine optical properties leads to information on biogeochemical cycles at the synoptic scale. In this topic, we invite scientists to submit novel studies on the ocean biogeochemistry based on its optical properties, including development of new sensors to infer biogeochemical properties based on light measurements, in situ and laboratory experiments, modelling of the radiative field, as well as applications to satellite ocean color.

### **Guest Editor**

Dr. Emmanuel Devred

Bedford Institute of Oceanography, Fisheries and Oceans Canada, Dartmouth, NS B2Y 4A2, Canada

#### Deadline for manuscript submissions

closed (30 April 2020)



## **Oceans**

an Open Access Journal by MDPI

Impact Factor 1.6 CiteScore 3.5



mdpi.com/si/33541

Oceans
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
oceans@mdpi.com

mdpi.com/journal/ oceans





Oceans

an Open Access Journal by MDPI

Impact Factor 1.6 CiteScore 3.5



## **About the Journal**

## Message from the Editor-in-Chief

#### Editor-in-Chief

Prof. Dr. Beatriz Morales-Nin

Mediterranean Institute of Advanced Studies CSIC-UIB, E-07122 Palma de Mallorca, Spain

### **Author Benefits**

## **High Visibility:**

indexed within Scopus, ESCI (Web of Science), AGRIS, and other databases.

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 38.6 days after submission; acceptance to publication is undertaken in 5.5 days (median values for papers published in this journal in the first half of 2025).

### **Journal Rank:**

CiteScore - Q2 (Oceanography)

