# **Special Issue**

# Petroleum and Plastic Biodegradation and Bioremediation in Aquatic Environments

## Message from the Guest Editor

For this Special Issue, topics will include, but are not limited to, the following: Presence of plastic and microplastic in aquatic environments;

Crude oil and hydrocarbon contamination in water and soil;

Microorganisms in plastic- and petroleum-polluted environments;

Biodegradation of plastic, microplastic, and petroleum; Bioreactors for plastic and petroleum biodegradation; New proposals in plastic and microplastic bioremediation;

Novelty in crude oil degradation by microorganisms. Plastic and microplastic biodegradation, if possible, is highly dependent on the type of plastic and microorganism selected, as has been published, and the research surrounding this area has been assessed in several directions, with incipient results being obtained. Petroleum bioremediation has been conducted with a focus on shortening the biodegradation time, improving the efficiency, and also realizing efficient processes for crude oil removal. We will value novel/effective proposals regarding the treatment of these residues to preserve aquatic environments and data recording the conditions of water ecosystems in terms of these contaminants.

## **Guest Editor**

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## Deadline for manuscript submissions

20 March 2026



## Water

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## Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

#### Editor-in-Chief

## Dr. Jean-Luc PROBST

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