microplastics

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Microplastics in Marine Environment

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Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editors

The lack of technologies/procedures equipped to efficiently determine the quantitative and qualitative aspects of microplastics in the marine environment is a problem that could be engaged with via the following approaches:

- characterization of micro- and macroplastic sources in marine and coastal area, including biota;
- development of dedicated transport/diffusion mathematical models for the microparticles;
- development of innovative instrumentation relying on optical analysis for in situ detection of microplastics;
- tuning and validation of the innovative technologies with standard laboratory analyses;
- identification of alarm thresholds of microplastic concentration;
- definition of procedures to generate early warnings to fishing farms to reduce health risks.

Therefore, the present Special Issue aims to cover two main aspects, as follows:

- the characterization of micro- and macroplastic (MP) sources in marine and coastal areas, including biota;
- the development of innovative technologies and approaches for tackling plastic marine litter, including monitoring, modelling and alert systems.