

Special Issue

Coastal Ecosystems Under Pressure: Research on Biogeochemistry, Biodiversity and Ecosystems Management

Message from the Guest Editors

The global coastal zones encompass extraordinary dynamics and complex interactions between natural processes and socio-economic activities at the interfaces between land, sea/ocean, and atmosphere. The boundary zone between land and sea/ocean is of great importance, as it has the highest primary productivity and biodiversity but is also vulnerable to pressures from anthropogenic activities and climate change. Coastal zones and marine ecosystems face challenges due to increasing human impacts on biodiversity and habitat degradation, as well as declining biomass, changes in water chemistry, increased eutrophication and hypoxia, increased pollution, strong impacts of water warming, and acidification. Understanding the impacts on these fragile systems and maintaining a sustainable ecosystem requires an interdisciplinary approach to research, modelling, and monitoring. In this context, we welcome contributions that expand the current state of knowledge on the pollutants and contaminants that affect coastal zones and have negative impacts.

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