Special Issue

Effect of Mangrove Ecosystems on Coastal Ecology and Climate Change

Message from the Guest Editors

Mangrove forests are highly productive and biologically significant ecosystems that provide a wide range of goods and services to society. Compared with other ecosystems, mangrove ecosystems have a much higher capacity for carbon sequestration and storage. Climate change, primarily driven by human activities, is occurring globally and poses significant threats to both humans and natural ecosystems. The carbon captured by mangrove ecosystems can help mitigate anthropocentric CO_2 emissions, making them crucial in addressing climate change and achieving sustainable development goals (SDGs). However, widespread deforestation and degradation have severely impacted mangroves. Since the 1980s, around 50% of the world's mangrove forests have been lost, putting them at great risk. Therefore, urgent action is needed to protect and restore mangroves globally. This Special Issue aims to explore the impacts of mangrove ecosystems on coastal ecology and climate change, providing scientific support for conservation efforts and the future development of coastal areas.

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