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Enhancing Resilience to Climate Change by Mitigating Extreme Wave-Induced Hazards on Sea Defences

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Message from the Guest Editors

With the increasing threat of sea level rise and more frequent storm surges from global climate change, pressures from coastal flooding on critical coastal defences and the properties they protect are expected to become more acute. While hard engineered coastal protections such as seawalls provide essential protections, the longer-term sustainability of these defence lines is increasingly being questioned due to their environmental and ecological impacts in nearshore areas as well as their static nature in responding extreme meteorological events. The need for research that provides an evidence base to encourage the wider adoption of ecological interventions in existing and new coastal defences is increasingly being recognised.

This Special Issue will present state-of-the-art research that focusses on addressing wave hazards on sea defences (including but not limited to seawalls, dykes and breakwaters). Particular consideration will be given to studies that integrate ecological interventions with existing sea defences to provide coastal protection, but which also serve to enhance biodiversity in the nearshore areas.

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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.

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