

## Special Issue

# Innovative Geoengineering Solutions to Protect Land and Freshwater Resources from Climate Change Impacts in Vulnerable Coastal Areas

### Message from the Guest Editor

Nowadays, coastal areas are the most populated regions worldwide and are characterized by a constantly precarious state of equilibrium between sea and land involving land, surface and transitional water bodies and freshwater aquifer-related problems. Climate change severely impacts land and freshwater resources in coastal areas due to rising sea levels and changes in the frequency and magnitude of severe storms and related storm surges; this causes an increase in coastal erosion flood risk that can lead to permanent inundation and loss of low-lying systems (e.g., deltas and coastal lagoons and subsiding areas) and hydrogeological instability. Coastal flooding due to storm surge and sea level rise (SLR), together with pumping-induced subsidence, can worsen saltwater intrusion in freshwater systems, further endangering unique and diverse ecosystems (wetlands, estuaries, lagoons, and humid zones that are partially or entirely dependent on groundwater regimes).....

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### Guest Editor

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### Deadline for manuscript submissions

closed (15 May 2024)



## 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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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