

## Special Issue

# Coastal Sediments: Processes, Transport, Modeling and Hydrodynamics

### Message from the Guest Editors

Coastal areas are important since the most of the world population lives there, and the protection and conservation are crucial for communities. In nature, the shape of a beach is not fixed, but it dynamically changes in response to environmental conditions such as waves and currents that produce sediment transport in the cross- and/or longshore directions. Therefore, it is important to precisely understand/predict such processes to prevent disasters. It is still challenging because they are initiated by small-scale motions in the near-bed boundary layers, but the results occur in wide areas over long-term periods, requiring advanced techniques and knowledge to monitor and model the processes in both short-term and long-term scales. In [this Special Issue](#), we invite research papers devoted to enhancing the quality of observational and numerical methods to understand/predict both long-term scale coastal processes and small-scale sediment transport/dynamics, as well as on coastal hydrodynamics such as nearshore currents, wind waves, and infragravity waves that can have significant impacts on sediment motions and coastal structures.

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### Guest Editors

Dr. Yeon S. Chang

Korean Institute of Ocean Science and Technology, Busan, Republic of Korea

Dr. Weon-Mu Jeong

Korean Institute of Ocean Science and Technology, Busan, Republic of Korea

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### Deadline for manuscript submissions

closed (29 February 2024)



## Water

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*Water*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[water@mdpi.com](mailto:water@mdpi.com)

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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

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR  
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Toulouse, France

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