



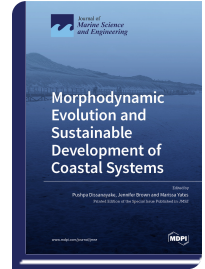
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Morphodynamic Evolution and Sustainable Development of Coastal Systems

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Coastal systems are unique environments that provide socioeconomic benefits via a variety of different functions. These functions are influenced by changing morphology, which results from erosion and sedimentation at different spatiotemporal scales, from both natural forcing and human interventions. Additionally, interactions between coastal processes and coastal engineering works leads to both positive and negative impacts. These dynamics are expected to continually change with flood and erosion hazards increasing in the future due to changes in sea level rise and wave climate, and the acceleration of anthropogenic effects. Understanding the forcing factors, natural morphodynamic evolution, and response to potential future scenarios will help coastal policy makers to define suitable adaptation strategies and to assure the sustainable use of coastal systems, which allows us to further enjoy the numerous socioeconomic and environmental benefits.



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