



## Energy and New Materials for Sustainable Water and Wastewater Treatment

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### Message from the Guest Editors

Due to the interdependence of water and energy, a huge amount of energy is consumed to produce clean water and vice versa. Thus, further research has been focused on engineering novel materials and energy harvesting in order to achieve (i) energy sufficiency in water/wastewater treatment and membrane process and (ii) sustainable bioelectrochemical systems that can simultaneously produce bioenergy and wastewater treatment. For this, diverse approaches incorporating nanocomposite with multifunctionality have been actively employed to developing novel membrane material, water/wastewater treatment systems, and electrode material in various types of bioelectrochemical systems, such as microbial electrolysis cells.

In this regard, the Special Issue invites all the multidisciplinary studies related to water–energy nexus technologies on process design and material fabrication in energy-efficient water/wastewater treatment, membrane process, energy recovery from wastewater treatment, and bioelectrochemical systems in both academia and industry. Original research and studies with empirical, theoretical, computational works, and review papers are welcomed.





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## Message from the Editor-in-Chief

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