Special Issue

Advanced Application of Nanomaterials and Nanotechnology in Water and Wastewater

Message from the Guest Editors

Due to rapid population growth, water resource has become one of the biggest competitive resources in many parts of the world. The treatment of water and wastewater is a great challenge in recent research. However, traditional materials and treatment technologies cannot effectively deal with environmental pollutants. Therefore, much effort has been devoted to seeking safe, efficient, sustainable, effective, and low-cost scientific treatment techniques. Engineered nanomaterials can be used for the advanced treatment of wastewater. These nanomaterials have been established in the development of adsorbent materials, catalysts, and separation membranes to enhance the removal of specific components of wastewater and improve productivity. At present, the most extensively studied nanomaterials for water and wastewater treatment mainly include carbon nanotubes, metal oxide nanoparticles, zero-valent metal nanoparticles, and nanocomposites. All of the above can be achieved by using nanotechnology. For more details, please find at: https://www.mdpi.com/journal/water/special_issues/Nanomaterials_Nanotechnology_Wastewater

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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.

Editor-in-Chief

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