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Nanomaterials Application in the Treatment of Wastewater

Guest Editors:

Dr. Asim Ali Yaqoob

Research Institute for Advanced Industrial Technology, College of Science and Technology, Korea University, Sejong 30019, Republic of Korea

Dr. Mohamad Nasir Mohamad Ibrahim

School of Chemical Sciences, Universiti Sains Malaysia, Penang, Malaysia

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Message from the Guest Editors

Dear Colleagues,

Water pollution is now a major problem that plagues both developing and developed countries. A new strategy that is effective while also being less harmful and producing better results is necessary. In the context of remediating the environment pollutant (wastewater treatment), there has been a lot of interest in the use of nanomaterials.

Advanced wastewater treatment can be achieved using engineered nanomaterials, such as nanotubes, nanomembranes, and nanoparticles. To promote the removal of certain components of wastewater and increase productivity, these nanomaterials have been established in the development of catalysts, and adsorbent materials. At the moment, biomass derived carbon nanotubes, green synthesized metal oxide nanomaterial, zero-valent metal nanoparticles, and biomass-derived nanocomposites are the key nanomaterials for water and wastewater treatment that have received the most attention. Furthermore, the use of nanomaterials in bioelectrochemical systems is an emerging topic these days. The novel concept of using nanomaterials in bioelectrochemical systems to remediate organic/inorganic pollutants is enthusiastically appreciated.



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Special issue



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Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

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Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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