Special Issue

Nanotechnology in Wastewater Treatment Technology

Message from the Guest Editors

Industrial scale wastewater treatment technologies are still largely based on conventional treatment methods and, thus, reflect a paradigm that has remained essentially unchanged since the last century. However, in recent years, there have been numerous proposed approaches on emerging advances in wastewater treatment technology involving integration of nanotechnology including, but not limited to: nanocatalysts for advanced degradation of pollutants; nanocomposite and surface nanostructured membranes; nanostructured additives for targeted separations; nanoparticle-based sorption resins; and sensors based on nanomaterials. The ultimate goal is towards achieving low cost process efficiency, process intensification and resource recovery. This Special Issue focuses on the latest research and development of nanoscale strategies with potential for practical applications in wastewater treatment.
Prof. Samuel B. Adeloju

Keywords: nanotechnology; nanomaterials; nanoparticles; nanomembranes; nanoadsorbents; wastewater; pollutant degradation

Guest Editors

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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