Special Issue

Advances in Nanomaterial-Based Water Purification

Message from the Guest Editor

The increasing water demand on a global scale requires the development of efficient purification methods for industrial wastewater, surface water, and groundwater contaminated by physical, chemical, biological and radiological pollutants. Nanomaterials are expected to play an important role in the treatment of contaminated water, mainly due to their high specific surface and reactivity. Nanosorbents, nanostructured catalytic membranes, nanocatalysts, bioactive nanoparticles, carbonaceous materials, dendrimers, metal and metal oxide nanoparticles are currently being evaluated for their potential to act as functional materials for water purification. This Special Issue aims to present advances in the field of water purification by nanomaterials. Authors are invited to submit original articles and review papers related, but not limited to, the following topics: - Synthesis and characterization of novel nanomaterials for water purification; - Integration of nanomaterials into conventional water purification systems; - Novel architectures of water purification systems based on nanomaterials; - Toxicity, transport, and environmental fate of nanomaterials.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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