Special Issue

Catalytic Technology and Nanomaterials for Water Treatment

Message from the Guest Editors

Limited water resources and continuous population growth are impairing access to safe and clean water on a global scale. Nanomaterials with properties such as high efficacy and selectivity, high surface areas, cost-efficiency, recyclability, high thermal and mechanical stability, and environmental viability are being utilized to cleanse wastewater. The use of catalytic technology is a promising approach to water treatment that uses catalysts to facilitate chemical reactions that remove or break down contaminants in water. This Special Issue focuses on the synthesis, characterization and application of various types of nanomaterials, such as carbon-based materials, metal nanoparticles, and metal oxides, in water treatment. It includes the application of catalytic technology, the processes underlying catalytic reactions, the development and modification of catalytic reactors, and the use of catalysts in various water treatment processes. Although many nanomaterial-based catalytic technologies are already applied in water treatment, the field is rapidly advancing into new areas of discovery. It is my pleasure to invite you to submit a manuscript for this Special Issue.

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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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