Special Issue

Adsorptive and Catalytic Materials Used in Environmental Treatment

Message from the Guest Editors

Adsorption and catalysis technologies play a crucial role in water treatment, with applications in water pollution control, wastewater treatment, hydrogen production, advanced oxidation processes, electrosorption, electrocoagulation, and more. In recent years, new adsorption materials, catalysts, and treatment technologies have emerged in response to the growing demands for water treatment, driving rapid advancements in this field. However, enhancing the efficiency and stability of these technologies, optimizing reaction mechanisms, and gaining a deeper understanding of active reaction sites remain key challenges that need to be addressed.

This Special Issue aims to compile the latest research on adsorption and catalysis application in water treatment, covering various aspects, including synthesis strategies, reaction mechanisms, and technical applications. We invite experts and scholars to contribute their research findings on the wide-ranging applications of adsorption and catalysis in water treatment and share innovative technologies and methodologies, fostering further development and applications in this field.

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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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