Special Issue

Advanced Materials and Technologies for Wastewater Treatment Applications

Message from the Guest Editor

With increasing industrialisation, population growth, and urban development, both water scarcity and water pollution pose a threat to human welfare and ecosystems. Wastewater can be both a hazard and a precious resource for our world. Advanced materials and technologies such as membranes, functionalised materials, and advanced oxidation could turn wastewater into a significant water source for both industrial and domestic usages. Furthermore, these technologies can manage persistent chemicals of concern and recover valuable resources from wastewater, which is not achievable via conventional treatment methods. The aim of this Special Issue is to cover the advancement of new approaches that could solve the existing issues in wastewater treatment through material innovations, such as the application of sustainable materials/adsorbent, membrane functionalisation, adsorbent modification, and oxidation enhancement.

Guest Editor

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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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