Special Issue

Advances in Adsorbent Materials for Contaminant Removal from Wastewaters

Message from the Guest Editor

Water is considered one of the essential natural resources on earth. Pollutants such as persistent organic substances, dyes, micropollutants and heavy metals are considered to be the most dangerous water contaminants, having a detrimental effect on the aquatic ecosystem and human health. Among the different techniques adopted for wastewater treatment, adsorption can be considered one of the most used technologies due to its low cost and high removal efficiency. The choice of i) an adequate adsorbent material in terms of type of material (natural or synthetic) and adsorption capacity and ii) the implementation of an economic and easily scalable process for the production / modification of the adsorbent represent the fundamental requirements for large-scale applications.The purpose of this Special Issue is to collect research articles dedicated to the study and the optimization of the adsorption process for the removal of contaminants from wastewater. The study of the adsorption mechanism both from an experimental and theoretical point of view are welcomed.

Guest Editor

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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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