Special Issue

Applications of Adsorbent Materials in Water and Wastewater Treatment

Message from the Guest Editor

Modern society is characterized by intensive industrialization and urbanization, leading to the depletion of natural resources and an increasing threat to the environment. Water management and water quality control and decontamination are matters of global interest and are essential in meeting social needs. Water quality is deteriorating day by day due to the excessive discharge of industrial, agricultural, and domestic wastewater into fresh water bodies without pretreatment. Various types of pollutants can be found in water resources. Long-term exposure to these compounds poses a serious threat to human health. Therefore, the efficient purification of contaminated water remains a primary goal, so new techniques and materials for purification are constantly under development. Adsorption represents a simple, low-cost, and effective technique that can be used with a wide range of contaminants, including organic pollutants, heavy metals, and pesticides, making it versatile for different wastewater types, because it can effectively reduce contaminant concent sive renewable materials, with the potential to make the adsorption process economically viable and eco-friendly.

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