

Special Issue

Preparation of Functionalized Adsorption Materials and Its Application in the Field of Micropollutant Removal

Message from the Guest Editors

The presence of micro-pollutants such as personal care products, pesticides, microplastics, nanoplastics, geogenic contaminants, and trace metals in water bodies represents one of the main environmental problems today, because they are persistent in the environment, bioaccumulate, and biomagnify. However, several technoeconomic challenges must be resolved to achieve large-scale application of low-cost and sustainable functionalized materials in wastewater and groundwater purification. The objective of this Special Issue is to present the latest advances and developments in the sustainable preparation of functionalized materials and their application for the removal of microcontaminants from water. Suitable topics for this Special Issue include, but are not limited to, the sustainable synthesis, characterization, and application of functionalized materials (e.g., activated carbons, hydrochars, graphene and graphene oxide, mesoporous silicas functionalized with metals or nanoparticles, metal oxides, doped nanocomposites, polymers, MOF's, COF's, functionalized biomaterials, and nanoparticles) for the removal of micropollutants from urban, agricultural, and industrial sources.

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