Special Issue

Application of Nanotechnology and Nanomaterials in Removal of Heavy Metals, Dyes, or Emerging Pollutants

Message from the Guest Editors

Heavy metals, notorious for their persistence and toxicity, pose significant threats to ecosystems and human health. The removal of dyes represents a formidable challenge, especially in industries such as textiles and wastewater treatment plants. Furthermore, the Special Issue extends its scope to encompass emerging pollutants, including pharmaceuticals, personal care products, and microplastics, among others. These pollutants, often overlooked yet pervasive, present complex challenges due to their diverse origins and environmental persistence. Nanomaterial-based adsorbents, catalysts, membranes, and hybrid systems have exhibited remarkable potential in adsorptive and catalytic degradation processes, demonstrating high efficiency, selectivity, and reusability. From wastewater treatment to soil remediation, the research presented in this Special Issue highlights the promising potential of nanotechnology in addressing pressing environmental concerns. Hence, it is my pleasure to invite you to contribute your research work to this Special Issue, focusing on novel nanomaterials development for pollutant removal.

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Editor-in-Chief

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