

Special Issue

Innovation of Heavy Metal Adsorption Process

Message from the Guest Editors

Heavy metal contamination in water sources remains a significant environmental challenge, posing risks to both human health and ecosystems. The continuous development of advanced adsorption technologies is crucial in mitigating these risks and ensuring safe water for all. This Special Issue aims to gather cutting-edge research and innovative solutions in the field of heavy metal adsorption processes. We invite researchers and practitioners to submit original research articles, reviews, and case studies that explore new materials, mechanisms, and methodologies for the adsorption of heavy metals. Topics of interest include, but are not limited to:

- The development of innovative adsorbent materials, including nanocomposites, bio-based adsorbents, and hybrid systems;
- An advanced understanding of adsorption mechanisms and kinetic studies;
- Strategies for adsorbent regeneration and reusability with a focus on sustainability;
- Case studies demonstrating real-world applications and the effectiveness of adsorption technologies;
- Comparative analyses of emerging and existing adsorption technologies;
- Environmental impact and economic feasibility assessments of adsorption processes

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