

## Special Issue

# New Research on Adsorbent Materials in Environmental Protection

### Message from the Guest Editor

The investigation into adsorbent materials for environmental protection is robust, fueled by mounting concerns about pollution and the urgent need for sustainable solutions. These versatile materials are applied across various environmental applications, spanning water and air purification, wastewater treatment, and the remediation of contaminated sites. Researchers are also exploring renewable and biodegradable materials as adsorbents, such as agricultural waste, cellulose-based materials, chitosan, and biochar. Composite materials are gaining attention for their synergistic effects and improved performance. For example, combining activated carbon with polymers or metal nanoparticles can enhance adsorption efficiency and provide selectivity toward specific pollutants. Moreover, with the increasing recognition of emerging pollutants such as pharmaceuticals, personal care products, and microplastics, there is a growing emphasis on the development of adsorbents capable of effectively eliminating these contaminants from the environment.

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