Special Issue

Advancements in Biochar and Activated Carbon for Efficient Water Treatment and Pollutant Adsorption

Message from the Guest Editors

This Special Issue invites cutting-edge research and reviews addressing innovative applications of biochar and activated carbon in water treatment and pollutant remediation. Contributions should explore novel synthesis methods, advanced characterization techniques, adsorption mechanisms, and scalable applications targeting emerging contaminants such as heavy metals, organic pollutants, and emerging contaminants. Submissions emphasizing sustainability, cost-effectiveness, and real-world implementation are particularly encouraged. Topics may include, but are not limited to, engineered carbon materials, hybrid adsorption systems, regeneration strategies, and life-cycle assessments. By compiling multidisciplinary insights, this Issue aims to advance scientific understanding and foster solutions for global water security challenges. Researchers across environmental science, materials engineering, and chemistry are invited to submit original work to shape this critical discourse.

Guest Editors

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Editor-in-Chief

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