

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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Deadline for manuscript submissions

closed (15 April 2026)



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About the Journal

Message from the Editor-in-Chief

Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

Editor-in-Chief

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