Special Issue

Applications of Biochar in Environmental Remediation: Insights and Innovations

Message from the Guest Editors

Biochar, a carbon-rich material produced through the pyrolysis of biomass, has gained significant attention in recent years for its potential to address various environmental challenges. We welcome original research articles, comprehensive reviews and short communications that contribute to the understanding and advancement of biochar applications in environmental remediation, including, but not limited to:

- Advancements in Biochar Production: Studies focusing on innovative techniques for biochar production, the optimization of pyrolysis conditions, and the development of novel feedstocks.
- Mechanisms of Pollutant Removal: Research elucidating the mechanisms by which biochar adsorbs or transforms pollutants in soil, water, and air, including heavy metals, organic contaminants, and greenhouse gases.
- Biochar-Enhanced Soil Remediation: Investigations into applications of biochar for soil amendment.
- Water and Solid Treatment Solutions: Studies on the use of biochar in water and solid treatment processes.
- Innovative Applications and Technologies: Papers that explore novel applications of biochar in environmental remediation.

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