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Recent Advances in Hydrothermal Carbonization

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Message from the Guest Editor

Hydrothermal carbonization (HTC) is a promising technology to convert biogenic residues (agricultural residues, industrial and municipal waste) into innovative material, energy, or environmental products. Its chemistry offers a huge potential to tune and control the product's properties and demand, and produce designer carbon materials for a variety of applications from environmental sorbents and innovative energy storage to soil amendments. The liquid phase obtained during hydrothermal treatment contains a valuable source of chemicals and can be used as a feedstock for anaerobic digestion or upgraded to fuel precursors.

This Special Issue will focus on recent developments, driven by both fundamental research and applied technology. Researchers from diverse disciplines, ranging from chemists, material and chemical engineers to agricultural and soil scientists, are invited to submit manuscripts. Companies in solid waste and wastewater treatment, as well as those in the agricultural and energy industries, with feasibility studies or full-scale technological applications, are also invited to present their experiences.

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Message from the Editor-in-Chief

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