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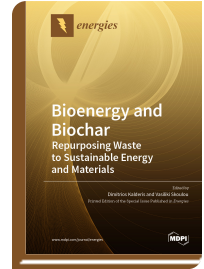
*Special Issue Reprint*

## **Bioenergy and Biochar: Repurposing Waste to Sustainable Energy and Materials**

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All types of biomass, and their waste, comprised one the pillars of the preindustrial, pre-fossil fuel, agriculture-based economies of the past. Traditional practices of biomass waste management were applied, but not necessarily in a sophisticated and efficient way, and included everything from agricultural activities to food production, animal feed, natural fiber separation, and processing of forest wood. The modern bioeconomy sector, however, includes new circular economy energy and materials streams of added-value products, such as gaseous, liquid and solid biofuels and bioenergy generation routes, and biochar production, along with all the previously mentioned traditional products emerging from the bioeconomy.

This Special Issue includes some of the latest bioenergy and biochar advancements and their incorporation into a bioeconomy in transition. It focuses on nature, properties, upgrading, and bioenergy generation processes from all types of biomass waste and biochars originating from biomass waste. The multidisciplinary of bioenergy and biochar research is evident throughout the Special Issue, highlighting the highly variable and tunable processes involved in biomass handling, pre-processing, converting to biochar, and recovering energy.



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