



Sustainable Carbon Materials from Hydrothermal Processes

Maria-Magdalena Titirici

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The production of low cost and environmentally friendly high performing carbon materials is crucial for a sustainable future. *Sustainable Carbon Materials from Hydrothermal Processes* describes a sustainable and alternative technique to produce carbon from biomass in water at low temperatures, a process known as Hydrothermal Carbonization (HTC).

Sustainable Carbon Materials from Hydrothermal Processes presents an overview of this new and rapidly developing field, discussing various synthetic approaches, characterization of the final products, and modern fields of application for of sustainable carbon materials.

Topics covered include:

- Green carbon materials
- Porous hydrothermal carbons
- HTC for the production of valuable carbon hybrid materials
- Functionalization of hydrothermal carbon materials
- Characterization of HTC materials
- Applications of HTC in modern nanotechnology: Energy storage, electrocatalysis in fuel cells, photocatalysis, gas storage, water purification, sensors, bioapplications
- Environmental applications of HTC technology: Biochar production, carbon sequestration, and waste conversion
- Scale-up in HTC

Sustainable Carbon Materials from Hydrothermal Processes will serve as a comprehensive guide for students and newcomers in the field, as well as providing a valuable source of information for researchers and investors looking for alternative technologies to convert biomass into useful products.



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