Handbook on Characterization of Biomass, Biowaste and Related By-products

- Gathers and compares various characterization methods to help readers quickly understand and choose the most appropriate methods
- Includes biological, chemical, thermal and physical methods to provide a comprehensive approach to biomass and bio-waste characterization
- Includes protocols, standards, databases and references for reliable analyses
- Focuses on different biomass and related biomass products that enable the characterization of a wide range of biomass and bio-waste types
- Discusses innovative characterization methods under development to keep readers up to date

This book provides authoritative information, techniques and data necessary for the appropriate understanding of biomass and biowaste (understood as contaminated biomass) composition and behaviour while processed in various conditions and technologies. Numerous techniques for characterizing biomass, biowaste and by-product streams exist in literature. However, there lacks a reference book where these techniques are gathered in a single book, although such information is in increasingly high demand. This handbook provides a wealth of characterization methods, protocols, standards, databases and references relevant to various biomass, biowaste materials and by-products. It specifically addresses sampling and preconditioning methods, extraction techniques of elements and molecules, as well as biochemical, mechanical and thermal characterization methods. Furthermore, advanced and innovative methods under development are highlighted.

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