

## Special Issue

# Valorization of Renewable Resources for the Production of Biobased Products through the Implementation of Circular Bio-Economy Principles

### Message from the Guest Editors

The increasing generation of waste and the reduction of primary resources are major problems of modern society closely interlinked with escalating raw material costs. The transition to a low carbon economy must be based on the utilization of renewable resources incorporating novel technologies and bioprocessing to provide clean energy, green chemicals, biodegradable and safe products of high quality and functionality.

Contributions to this Special Issue may include empirical studies, case studies, and comparative and theoretical studies. Topics include, but are not limited to:

- Biomass pretreatment and waste valorization
- Biorefinery development for bio-based products
- Recovery of values added products from agricultural waste streams
- Sustainable production of biobased products
- Biofuels towards a carbon neutral economy
- Sustainable applications in food formulations, packaging, cosmetics, pharmaceuticals, etc.
- Development of bio-economy business models
- Sustainability challenges and aspects of the circular economy
- Life cycle assessment for bio-based production using renewable resources
- Policy and social strategies, finance and the transition towards a circular bioeconomy

### Guest Editors

Dr. Erminda Tsouko

Dr. Sofia Maina

Dr. Maria Alexandri

### Deadline for manuscript submissions

closed (30 September 2023)



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