



Bio-Based Materials and Energy under Circular Economy Approaches

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Message from the Guest Editors

The efforts put in transition from a linear to a circular economy have provided innovative ways of design thinking and enabled new business models based on industrial ecology. In the circular economy pathway, all residues are rather faced as resources, which are expected to support achievement of the Sustainable Development Goals and environmental protection standards. Moreover, the circular economy agenda urges a step forward to cope with population growth and changes in consumption patterns that are putting pressure over the soil–water–energy nexus. As such, more research is needed to assess whether bio-based recycled materials and energy can replace conventional products in a cost-effective and environmentally sustainable path.

This Special Issue seeks to fill these gaps and aims to highlight the merit of bio-based materials and energy in both research and industry axes. To this end, this Special Issue will collect contributions on disruptive technologies, processes, products, and industrial synergies that rely on circular economy principles.





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