



## Intelligent Circularity in Bio-Based Energy Systems, Processes and Value Chains

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Deadline for manuscript  
submissions:

**closed (15 April 2023)**

### Message from the Guest Editors

In the paradigm of accelerated growth and transition towards United Nations Sustainability Development Goals, resource circularity has become an important topic in industrial processes, energy systems and value chains. The mitigation of direct and indirect greenhouse gas emissions has become a key priority for companies and institutes to move towards new technology and business models. Considering resource circularity, one of the most promising strategies for the circular transition is to explore and replace existing systems with bio-based alternatives. Nevertheless, bio-based resources and materials are difficult to model due to their often complicated and uncertain underlying compositions. In this light, there is a challenging demand for more representative and intelligent modelling approaches to provide support for circularity within our bio-based future.

The aim of this Special Issue is to promote the research advances in intelligent modelling approaches for decision support in bio-based energy systems, processes and value chains. A key element for the Special Issue is in promoting circularity with the motive of achieving United Nations Sustainability Development Goals.





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## Message from the Editor-in-Chief

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