

Special Issue

Sustainable Circular Economy Practices and Life Cycle Assessment for Manufacturing

Message from the Guest Editors

The circular economy is becoming an important driver for sustainability improvement, and it is expected to provide significant benefits from all perspectives (economic, environmental, and social). However, developing and implementing the Circular Economy approach is challenging, considering that this requires the development of systemic innovation and usually acting along the entire supply chain or even looking at the intersection of various, previously not correlated, supply chains. Visibility and transparency are thus becoming particularly important for effectively implementing a circular economy, raising initiatives on digital product passports, and using blockchains. Measurability is another key point asking for more effective, less resource and time-demanding, as well as user-friendly Life Cycle Assessment (LCA) procedures, as well as the definition of Circularity maturity models and the respective KPIs. Another important subject is investigating how more advanced tools are being developed to go from simple sustainability measurements and assessments to sustainability and circularity advice systems.

Guest Editors

Prof. Dr. Luca Canetta

Dr. Paolo Rosa

Prof. Dr. Marzio Sorlini

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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