

Special Issue

Additive Manufacturing for Circular Economy: Sustainable Materials and Energy-Efficient Processes

Message from the Guest Editors

Additive Manufacturing (AM) technologies emerge as an efficient advanced net-zero waste solution for the development of sustainable, environmentally friendly production systems. In turn, this aids in the transition towards a circular economy, in alignment with the global Sustainable Development Goals on clean manufacturing processes, sustainable material utilization, energy-efficient production routes, and extended product life cycles. The purpose of this Special Issue is to bridge material science, digital manufacturing processes, and sustainability science for long-term viable clean production systems. The collection of works will fill existing literature gaps and provide novel perspectives on the ability of AM to simultaneously reduce waste production, lower carbon emissions, minimize raw feedstock demands, and enhance system-wide metrics on sustainability. We warmly welcome contributions featuring novel methods of reacquiring recyclable feedstocks, AM-enabled circular practices, LCA analyses, and scalable projected production systems, either as computational investigations or as real-life pilot systems.

Guest Editors

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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