

## Special Issue

# Life Cycle Assessment and Design of Sustainable Additive Manufacturing

### Message from the Guest Editor

This Special Issue will focus on the challenges associated with sustainable additive manufacturing, focusing on the production of efficient components (without defects and with mechanical and microstructural characteristics equal to those produced in a traditional way) with a low environmental impact. We will also address the transformation of waste into raw materials for reuse and reductions in the use of energy of. In this Special Issue, we welcome the submission of original research articles and reviews. The scope of this Special Issue includes, but is not limited to, the following topics:

- LCA and LCC analysis of sustainable additive technologies;
- Cradle-to-Grave analysis of components in “difficult-to-cut” materials produced using additive techniques compared to traditional techniques;
- Recycling of waste for the production of raw materials;
- Reduction of energy costs in the production of high-efficiency components.

I look forward to receiving your contributions.

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### Guest Editor

Dr. Vincenzo Tebaldo

Institute of Sciences and Technologies for Sustainable Energy and Mobility (STEMS), Turin, Italy

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### Deadline for manuscript submissions

28 February 2026



## Sustainability

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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. *Sustainability* publishes original research articles, review 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.

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### Editor-in-Chief

Prof. Dr. Marc A. Rosen

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