

Special Issue

Sustainability in Metal Additive Manufacturing

Message from the Guest Editors

Additive Manufacturing (AM) technologies have emerged as manufacturing processes for producing functional components in various industrial sectors like aerospace, biomedical, automotive, and energy generation. AM technologies show great potential in boosting sustainability in the industry as it brings the benefits of design freedom, mass customization, the possibility of print-on-demand, and a low buy-to-fly ratio. Metal AM technologies have seen significant technical advancements and maturation recently in terms of quality assurance, design optimization, and development of material portfolio thanks to the joint efforts made by researchers in the fields of materials science, mechanical engineering, and computer science, etc. Meanwhile, there still exist practical hurdles for industries to implement metal AM technologies, such as the high production cost, uncertainties in part quality, the need for expensive and time-consuming post-processing, and lack of standard procedures for reusing/recycling raw materials. The Special Issue invites contributions from all relevant disciplines to address the sustainability issues in AM.

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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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