



Sustainability in Metal Additive Manufacturing

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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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