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High-Performance Metal Additive Manufacturing

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Deadline for manuscript submissions:

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Message from the Guest Editors

In this Special Issue, we seek to present a comprehensive collection of research articles, reviews, and case studies that highlight the state-of-the-art techniques, novel materials, in/ex situ materials characterization, process optimization, modelling and simulation, and applications in metal AM, with a specific focus on achieving high-performance outcomes for strategic sectors, including the aerospace, marine, automotive and energy industries. We encourage submissions that cover a wide range of topics, including, but not limited to, the following:

- Design methodologies for high-performance metal parts using AM techniques.
- Advanced metal powders and alloys tailored for AM, specifically metal matrix composites and smart alloys.
- Process optimization and control strategies to enhance mechanical, chemical and physical properties and surface finish of additively manufactured parts.
- Novel post-processing techniques for improving the performance of additively manufactured metal components, particularly in extreme environments.
- Real-world applications of high-performance metal AM in diverse sectors.











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Message from the Editor-in-Chief

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