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Additive Manufacturing of Aluminum Alloys and Aluminum Matrix Composites

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Deadline for manuscript submissions:

closed (20 October 2023)

Message from the Guest Editors

Dear Colleagues,

With significant advantages in specific strength and stiffness, aluminum alloys and aluminum matrix composites have been widely used in transportation, aerospace, and other applications. Additive manufacturing (AM) has great potential for the rapid customization and repairment of parts and could be generally categorized into fusion, solid-state, and binder jetting AM. The heat source in fusion AM includes laser, electron beam, and electric arc. The style of providing the supplementary material in fusion AM includes powder bed, deposited powder, and deposited wire. Solid-state AM generally includes cold spray, ultrasonic AM, and friction AM.

For this Special Issue, we invite you to submit papers in additive manufacturing of aluminum alloys and aluminum matrix composites. The topics include but are not limited to fusion and solid-state additive manufacturing processes, advanced characterization, modeling and simulation, optimization of the manufacturing process, topological optimization, in situ observation, monitoring control, post-treatment, and hybrid manufacturing.





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Message from the Editor-in-Chief

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