



Powder Processing of Light Alloys and Composites

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Message from the Guest Editor

Dear Colleagues,

Light alloys and light alloy-based composites are widely employed in applications requiring a high strength-to-weight, energy efficiency, and safety critical performance, including in transport, aerospace, and biomedical applications. Over the past decades, there have been substantial developments in alloy design and processing, leading to improvements in performance and increased usage. Powder-based processing routes, including conventional powder metallurgy and emergent additive manufacturing methods, offer prospects for the economical production of net-shape components with complex or customised designs. There is also substantial opportunity to integrate both ex-situ and in-situ reinforcement toward the fabrication of light alloy-based composites with enhanced properties, including greater strength and better wear resistance. Despite recent advances, ongoing research is required in order to understand and improve important aspects of their processing and structures for better performance and reliability.





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Message from the Editor-in-Chief

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