



## Advances in Metal Composites and Processing Technologies

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### Message from the Guest Editors

Dear Colleagues,

Metal matrix composites have been widely developed and studied for over a century. The advances in production technologies require new materials that can be used in high-tech structural and functional applications including aerospace, biomedical, automotive, packaging and sports. Metal matrix composites provide high mechanical properties such as high strength and elastic modulus and improved wear resistance. The thermal and electrical conductivity can also be tailored and improved. In recent years, nano-reinforced metal matrix composites have drawn wide attention as they provide high strength and can be used to produce light-weight components.

This special issue aims at collecting recent research studies on advancements and developments in metal matrix composites, nano-reinforced metal composites, and related production technologies. Topic areas such as forming of metallic materials, compositing forming, additive manufacturing, nanostructure metal forming, innovative joining methods, metal forming and non-conventional processes will be covered in this special issue.





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## Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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