Special Issue

Development and Design of Metal Matrix Composites Using Additive Manufacturing Techniques

Message from the Guest Editor

Metal matrix composites consisting of any metal as the matrix and reinforced with ceramics or another metal as secondary-phase fibers or particles have become inevitable in the manufacturing sector due to their high demand. Additionally, there is greater demand for hybrid metal–matrix composites consisting of three or more materials to form composites due to their enhanced strength-to-weight ratio and improved mechanical properties. Although various solid, liquid, and vapor-based techniques are available for manufacturing metal matrix composites, there is a greater demand for the development of additive manufacturing techniques to enable the rapid manufacturing of metal matrix composite components. In view of deliberating the current developments in the additive manufacturing techniques for metal matrix composites, this Special Issue is launched that will publish original research articles and reviews related to processing, structure, and properties or functions of additively manufactured metal matrix composites.

Guest Editor

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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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