Special Issue

Advance of Carbon Reinforced Metal-Matrix Composites

Message from the Guest Editors

With the development of metal-matrix composites (MMCs), carbonaceous reinforcements such as graphite particles, carbon nanotubes, graphene, SiC particles etc. have received increasing attention owing to their lower density, perfect elastic modulus and strength, good thermal conductivity, and excellent electrical properties. Simultaneously, the preparation technologies for MMCs are also developing—advanced equipment and technology are applied in powder metallurgy, semisolid forming, die casting, etc. Thus, the current Special Issue focuses on carbon-reinforced MMCs, including but not limited to advanced MMCs, preparation technology and performance.

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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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