

Special Issue

Carbon Nanotubes and Graphene Reinforced Metal Matrix Composites

Message from the Guest Editors

Existing monolithic ceramic materials exhibit severe brittleness. Overcoming the brittle characteristics of ceramics has remained one of the challenges in the ceramic industry. One of the potential approaches is to tailor the microstructure of ceramics at nanometer level. This can be done by reinforcing these materials with existing carbon nanomaterials such as carbon nanotubes (CNTs) and graphene nanoplatelets (GNPs). These promising carbon nanomaterials has shown exceptional mechanical behavior and outstanding multifunctional features, which are currently being investigated for variety of engineering applications. Different grades of CNTs (single-walled, multi-walled) can be used in brittle ceramics to improve their toughness, strength, and electrical and thermal conductivities. Similarly, GNPs possess impressive thermal, mechanical, and electrical properties. This topic will help researchers to summarize the latest development in utilization of these materials for advanced engineering applications in these different industrial sectors.

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