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Processing, Characterization and Applications of Ceramic Matrix Composites

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Message from the Guest Editors

Ceramic–matrix composites are ceramic-based materials reinforced with a secondary reinforcing phase that can be other ceramics, fibers, carbonaceous materials, polymers or metals, which create interphases providing non-brittle fracture. CMCs can combine properties of the components providing much better capabilities and performance than the corresponding single constituents. Consequently, they have applications in multiple domains, such as aerospace propulsion, aircraft and automobile components, high-temperature heat exchange and many others.

This Special Issue is devoted to all aspects involved in the processing, characterization and applications of ceramic–matrix composites, and therefore, papers encouraging novel aspects of the different steps of their manufacture and characterization, including microstructure, properties and applications, are welcome. Contributors are required to submit original, high-quality papers on their current progress in fundamental and applied science aspects related to CMCs and, in particular, contributions focusing on the relationships between processing, microstructure and properties facing the final application and in-service behavior.

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Message from the Editor-in-Chief

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