



Novel Design, Synthesis, and Applications of Ultra High Temperature Ceramic Matrix

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Message from the Guest Editor

With a series of excellent properties, high temperature resistance, strength, modulus, thermal conductivity, and low thermal expansion coefficient, ceramic matrix composite (CMC) materials show superior high-temperature thermodynamic properties and microstructure stability. Furthermore, this lightweight composite material exhibits integrated structural load-bearing and resistance to harsh environments, with potential applications in the thermal insulation of aerospace vehicles, heat protection, aeroengine turbine blades, rocket engines and advanced nuclear energy high-temperature components.

This Special Issue welcomes the submission of unpublished manuscripts (original research papers or review articles) on all kinds of Ceramic Matrix Composites, including their design, synthesis, characterization and applications.

It is a great pleasure to invite you to submit a contribution related to any of these aspects.





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Message from the Editor-in-Chief

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