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Advanced Ceramics Composites and Its Applications

Guest Editor:

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Message from the Guest Editor

Along with metals and polymers, advanced ceramics and their ceramic matrix composites (CMCs) are one of the most promising classes of materials for the key technologies of the 21st century. In particular, condensed achievements have been obtained in these two areas: (1) structural applications—oxidation and corrosion of ceramics, thermal barrier coatings, ceramic filters and membranes, high-temperature engineering ceramics, advanced ceramic glow plugs, nanosized and nanostructured hard and superhard materials and coating, polymer-derived amorphous ceramics and CMCs; (2) functional applications—microwave ceramics, ceramic fuel cells, nitridosilicates and oxonitridosilicates from ceramic materials to structural and functional diversity, ceramic lighting, ceramic sensors, oxides for Li intercalation and Li-ion batteries, magnetic ceramics.

This Special Issue aims to cover the recent research work on advanced ceramic materials and their CMCs with tailored structural and/or functional properties, so as to provide an insight into the current state and future prospects of this field.



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Special Issue



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Message from the Editor-in-Chief

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