Special Issue

Advanced Ceramics Composites and Its Applications

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) strucrual applications—oxidation and corrosion of ceramics, thermal barrier coatings, ceramic filters and membranes, high-temperature engineering ceramics, advanced ceramic glow plugs, nanosized and nanostructured ard and superhard materials and coating, polymer-derived amorphous ceramics and CMCs; (2) functional applciations—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 taliored structral and/or functional properties, so as to provide an insight into the current state and future prospects of this field.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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