Special Issue

Performance and Applications of Ceramic and Ceramic Composite Materials

Message from the Guest Editor

The microstructure of ceramic composites plays a critical role in their performance in a wide range of applications in key areas including health, energy, environment, advanced manufacturing, electronics, and engineering. Through careful design, ceramic composites can offer unique properties tailored by the addition of particles, fibers, nano-fillers, and macro design (e.g., laminates), which meet specific application requirements. The study and understanding of ceramic composites offer unique opportunities to advance their use in society. This Special Issue will focus on recent work that focuses on advancing the performance of ceramic composites. Topics can include, but are not limited to the following:

- Novel processing and effect on microstructures and properties.
- Use of secondary phases or multiple phases to achieve unique performances.
- Ceramic composites developed for challenging applications.

Guest Editor

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Message from the Editor-in-Chief

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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