Special Issue

Structure and Mechanical Properties of Ceramics and Ceramic Composites

Message from the Guest Editor

Ceramics and ceramic composites are widely used in various fields of engineering and technology due to their unique properties, such as high strength, hardness, wear resistance, thermal stability, and chemical inertness. We are pleased to invite you to share your latest findings and advances in this field, and to discuss the current challenges and future opportunities for ceramics and ceramic composites. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Exploring the underlying fundamental linkages between microstructure and properties of ceramics and ceramic composites.
- Developing innovative processing techniques such as 3D printing to achieve desired properties in ceramics and ceramic composites.
- Investigating the effects of tailoring composition and processing parameters on the properties of ceramics and ceramic composites.
- Exploring the change of surface and subsurface structure during conventional machining process using molecular dynamics simulations.

I look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

closed (20 January 2024)

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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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