Special Issue

Production and Processing of High Performance Ceramic

Message from the Guest Editor

For the successful implementation of ceramics in such demanding applications, the development of new and improved production and processing techniques for ceramics is still needed. Commonly used methods such as slip molding, tape casting, and extrusion are suitable for the production of ceramic sheets and other simple geometries. For the production of more complicated geometries, additive manufacturing has become increasingly popular. Being ever conscious of the high energy costs to sinter advanced ceramics, other researchers use nano-powders and precursor derived ceramics to produce high performance materials formed at significantly lower sintering temperatures. Ultimately, the suitability of new ceramic materials and new processing techniques must be appropriate for the intended application. The scope of this Special Issue is recent advances in the production and processing of ceramics for various high performance applications. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews in the manufacturing and performance of ceramics are welcome.

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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