

Special Issue

Synthesis, Sintering, and Characterization of Composites

Message from the Guest Editor

As an important preparation process, sintering plays a very important role in the field of modern materials science. Composites sintering can combine different types of materials into one through hot pressing to form new materials with excellent properties that are widely used in aerospace, automobile manufacturing, electronic products, and other fields. Currently, the innovation of new sintering technologies is sought with the use of additives and second reinforcement phases in sintered matrices, which open wide opportunities for the creation of materials with excellent mechanical properties. In this sense, emerging technologies such as spark plasma sintering, hot-pressed sintering, selective laser sintering, microwave sintering, and conventional ovens are of interest. This Special Issue aims to present the latest research related to the study of ceramics, metallic alloys, and metal matrix composites processed through advanced sintering technology, focusing attention on the microstructural evolution, interface structure, and mechanical properties of the processed materials.

Guest Editor

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About the Journal

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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