Special Issue

Novel Metal-Ceramic Composites

Message from the Guest Editor

The combination of two or more different materials offers a range of advantages. Metal–ceramic composites are natural candidates for these demanding applications due to the diverse and dissimilar physical properties of metals and ceramics, which gives the final products attractive mechanical, electrical, thermal, and biochemical properties and property combinations.

In this Special Issue we are soliciting original experimental and theoretical papers, as well as comprehensive reviews which are focused on a novel scientific and technological progress associated with the preparation of nano- and microsized metal–ceramic composites. The scope of this Special Issue covers a very broad range of topics from fundamental concepts, experimental and theoretical studies relating to this type of composites, influence of constituent materials concentration, and geometric parameters of composite medium, determining the physicochemical properties, investigation of the microstructure and microstructure–property relationships, manipulation of properties through various manufacturing and processing techniques, metal–ceramic joining, modeling, and simulations.

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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