Special Issue

Mechanical Properties and Electrical Conductivity of Ceramics

Message from the Guest Editors

This Special Issue, "Mechanical Properties and Electrical Conductivity of Ceramics", will address recent advances on correlations between the microstructure and processing, and the mechanical and electrical properties of new advanced ceramics. Original papers on any aspect of these two crucial topics in ceramic science are welcome. These include basic contributions on dislocation dynamics in single crystals or polycrystals, superplasticity, ionic conductivity, and dielectric impedance; new phenomena related to plasticity or electro-mechanical effects; as well as those reporting new applications derived from exceptional mechanical or electrical properties. Of particular interest are recent developments in advanced ceramics, new techniques for processing, and the correlation between electrical and mechanical properties. The issue is particularly open to papers dealing with new experimental results and the subsequent modelling, as well as those covering new simulation techniques on the topic.

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Deadline for manuscript submissions

closed (30 December 2021)

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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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