Special Issue

Advances in Ceramic and Molecular Ferroelectric Materials

Message from the Guest Editor

The texture of functional materials is a controlling factor governing their performance in application. Texture engineering has become a vital tool for enhancing the functionality of materials by exploiting their intrinsic property anisotropy. In addition, the crystallographic texture stores information about the history of materials because processing and external forces strongly influence the microstructure. For example, ceramists routinely quantified crystallographic textures to correlate enhancing in properties with processing-induced texturing and infer extrinsic contributions to the macroscopic properties from ferroelastic textures. Deformation textures in olivine enable geologists to determine the thermomechanical processes inside the Earth's crust. The continued advances in measurement probes (electron backscatter diffraction (EBSD) and X-ray/neutron diffraction) and data analysis methods require research with higher fidelity information texture information.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/31393

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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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