



materials



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Advances in Ceramic and Molecular Ferroelectric Materials

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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.



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Special issue



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Editor-in-Chief

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Message from the Editor-in-Chief

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