Special Issue

Electroceramic Materials

Message from the Guest Editor

Electroceramics are at the heart of modern electronics because they afford an unmatchable range of electrical, magnetic and optical properties, which underpin the deployment of new technologies. Indeed, nowadays electroceramics are ubiquitous in the technical, scientific, industrial and consumer arenas. Nevertheless, the ever increasing trend towards further miniaturisation of electronic devices is demanding new and improved electroceramics. Simultaneously, in response to raw materials scarcity and environmental concerns research into electroceramics has been forced to take a more sustainable path. In a foreseeable future, developments in the electroceramics field can be expected to be driven by implementation of multiscale modelling for optimal design. In particular tailoring of the local structure may enable new functionalities. These three factors have promoted a good wealth of fundamental and applied research into ceramics materials with potential to meet stringent requirements placed by technological areas ranging from wireless communication, energy storage, sensors and actuators, just to mention a few.

Guest Editor

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