Special Issue

Performance Testing and Application of Ferroelectric/Piezoelectric Ceramics

Message from the Guest Editor

Piezoelectric and ferroelectric materials have attracted increased interest due to their potential application in the electronic industry. In particular, solid-state devices utilizing piezoelectric effects have garnered significant attention both scientifically and technologically; this is because piezoelectric devices such as actuators, sensors and transducers have been extensively employed in electromechanical applications such as oscillators, vibration damping, ultrasonic motors, ultrasonic biomedical imaging, MEMS loud speakers, accelerometers, resonators and micro/nano positioning. In addition, many new devices and applications have been explored intensively, and many novel technological developments, such as material fabrication, device design, and the performance evaluation of devices, are emerging. These technologies offer outstanding ferroelectric and piezoelectric properties, which makes them particularly useful in the field of electronic devices. This Special Issue aims to gather recent research on ferroelectric/piezoelectric materials and devices in the aforementioned areas.

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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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