Special Issue

Advanced Piezoelectric Materials: Science and Technology

Message from the Guest Editors

The last two decades have seen an intensive improvement of piezoelectric materials, both in fundamental research and in devices for applications. The researches on the catalysis and energy storage based on piezoelectric materials and flexible piezoelectric devices are in the ascendant. In the application field, piezoelectric ceramics, single crystals and thin films are widely used in a variety of ultrasonic transducers, actuators, sensors, filters, random access memory, field effect transistors and energy harvesters. These devices are applied in aerospace, consumer electronics, medical and other industries. This Special Issue will compile recent developments in the field of advanced piezoelectric materials. The articles presented in this Special Issue will cover various topics, ranging from but not limited to the electrical, optical and other functional properties of piezoelectric ceramics, single crystals or thin films, tailoring of phase structure, morphology, domain structure or lattice structure, devices oriented piezoelectric composites, piezoelectric catalysis, various of piezoelectric devices, such as ultrasonic transducers, actuators, sensors and energy harvesters.

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Message from the Editor-in-Chief

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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