Special Issue

Advances in Dielectric Ceramics and Their Applications (Second Edition)

Message from the Guest Editors

As important foundations of the information age, information, energy, and materials have important applications in all aspects of life. Dielectric ceramics are a new type of electronic material and are used in numerous electronic components with their dielectric and mechanical properties. To improve their performance and extend their service lives, a lot of work has been carried out in several existing and emerging areas in recent years: 1) the exploration of novel ceramic systems for microwave/millimeter-wave electronic applications; 2) the low-temperature synthesis and preparation of ceramics; 3) the correlation between crystal chemical design and performance optimization of ceramics; 4) the high coefficient of thermal expansion in ceramic packaging, microwave ceramic capacitors, and microwave composite dielectric substrates; and 5) the tungsten bronze structure for energy storage in ceramics and the internal relationship between domain evolution and energy storage performance, from which many interesting and promising results have been obtained.

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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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