Special Issue

Phase Structure and Functional Properties of Materials

Message from the Guest Editors

With the development and increasing requirement of technology, the functional properties of classic materials have been exploited and are attracting increasing attention. For example, the magnesium alloys have perfect biocompatibility and biodegradable properties for promising application as biomaterials and have high damping properties and EMI-shielding properties for application in 3C products and other related fields. Aluminum foams are attractive functional materials for their high-energy absorption capabilities, relatively low thermal conductivity, good electrical conductivity, high acoustic damping, and high fire retardation. There are many other classic materials being developed as functional materials, such as bio-titanium alloys used as biological materials, magnetic steels, primary Mg/Al batteries, and so on.

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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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