Special Issue

Oxide/Hydroxide-Based Materials and Their Application

Message from the Guest Editor

Metal oxides and hydroxides display extremely versatile properties of conductivity, light absorption, fluorescence, chemiluminescence and permeability through microorganisms. which allow a large variety of applications. The specific properties largely depend on the type of oxide or hydroxide, their peculiar structures and sizes. They can be arranged in nanoscopic and mesoscopic structures, nanoparticles, nanosheets, nanofoils, nanobelts, flower-like and grained-flower structures, foams, and needles. In addition, they can be used as pure, mixed or hybrid with organic materials, to create metal–organic frames or layered compounds. This Special Issue is devoted to any aspect of metal oxides and hydroxides that highlights their properties, improves their existing applications or points towards new ones. New types of syntheses or simpler, more environmentally friendly ones are the topic for this issue, in connection with their properties' variations. Papers on new tools and devices based on metal oxides and hydroxides as well as new configurations of existing ones are welcome.

Guest Editor

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Deadline for manuscript submissions

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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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