Special Issue

Functional Materials: From Synthesis to Applications

Message from the Guest Editor

The development of alternative energies, recycle of materials, and wastewater treatment is required to achieve sustainability in our modern society. In order to meet these demands, the search for new materials has become one of the main research topics of Chemistry. The studied materials are usually called functional. Such materials have acquired a prominent position in several high-tech areas. For instance, perovskites are widely used for photocatalysis, photovoltaic energy conversion, non-volatile RAM memories, SOFC, superconducting coils, and magnetocaloric devices. The scope of this Special Issue on "Functional Materials: from Synthesis to Applications" is the synthesis and characterization of transition metal oxides and related materials, which are important for various applications, such as catalysis, photoreforming, wastewater treatment, and production of clean energy. Magnetic, ferroelectric, multiferroic, and superconducting materials are of special interest for the development of more efficient and novel devices. We look forward to receiving your contributions.

Guest Editor

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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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