Special Issue

Inorganic Functional Materials: Synthesis, Characterization and Application

Message from the Guest Editor

As a result of the dynamic development of the nuclear industry, including nuclear power, as well as the progressive growth of personalized medicine services, there is an obvious and urgent need for high-quality functional materials that are clearly oriented to their practical purpose. Regardless of their functionality, it is the quality of materials that determines the effectiveness, safety, and necessity of various technologies, products, and services that provide full human life support for sustainable global development. The creation of new functional materials for a special purpose and the development and production of effective technologies is based on fundamental scientific knowledge about the chemical nature of raw components and end products, about physical and chemical bases of their synthesis, and about technological principles of their transformation into required products. Without the aforementioned scientific knowledge, it is impossible to predict and, even more so, to regulate the creation of functional materials with the required and specified set of performance characteristics.

Guest Editor

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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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