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Recent Progress in Functional Materials and Their Applications

Guest Editors:

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Message from the Guest Editors

Materials with desired properties for specific applications, such as electric, optical, thermal, mechanical, or magnetic, are called functional materials and have gained great attention in recent years. Considering that the physical, chemical, or biological properties of functional materials can be sensitive to changes in their structural arrangements in any dimensional range (i.e., micrometer, nanometer, or sub-nanometer scale), the study of nanostructured functional materials and their applications has become a key point of interest. All the aspects mentioned above that are aimed at improving the performance of those structures for targeted applications are worth being reported in this Special Issue.

Topics of interest include but are not limited to:

- Biomaterials
- Composites for energy;
- Magnetic functional materials;
- Materials for electronics and photonics;
- Functional materials synthesis and processing;
- Functional materials theory, computation, and design;
- Materials for environmental applications;
- Surfaces and interfaces of functional materials;
- Smart materials;
- Hierarchical structures.

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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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