Special Issue

Sustainable Chemistry for Advanced Materials: From Properties to Applications

Message from the Guest Editor

Advanced materials are used for production of consumer goods, cleaning products, cosmetics, chemotherapeutics, and variety of other materials. Thus, they are essential for many sectors such as public health, industry, mobility, constructions, high living standards, and many others. To guide the design of novel advanced materials, a fundamental understanding of their structure–property relationship is necessary. Based on this understanding, we are able to develop methodologies for the fine control of the material structures, and manufacturing process of their synthesis with enhanced efficiency and stability. Thus, to meet the growing demand for novel advanced materials in many aspects of our life, a sustainable engineering should be applied to make them more attractive and competitive in terms of properties and applications. This special issue highlights the advances in synthesis, characterization and applications of various novel nanostructured materials, ranging from 0D to 3D materials, in different potential applications.

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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