Special Issue

Advances in Thermal and Mechanical Properties of Polymeric Materials

Message from the Guest Editors

The purpose of this Special Issue is to publish papers that deal with the thermomechanical and electrical properties of polymers and their composites with other materials. It is important to recognize the applicability of various fillers in polymers composites, to create new composites and to modify existing composites. Advancements in the engineering of polymeric materials, including the search for innovative polymer composites with specific properties, resulted in the expansion of the area of their application. The practical application of new polymeric materials requires knowledge of their mechanical, electrical and thermal properties, as well as the recognition of changes in these properties during the operation and destruction of polymers. The environmental aspect of research is important, including the combustion/co-combustion of polymers, the thermal use of polymer waste with energy recovery, as well as other uses of recycled polymer materials. It is important to conduct model studies regarding changes in the properties of polymeric materials and the computer simulation of the course of exploitation and thermal processes of polymers.

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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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