Special Issue

Advances in Nanocomposite Polymer Fibers

Message from the Guest Editor

Polymer composites are multicomponent systems that combine two or more components, in order to produce materials with properties that are superior to individual components. In recent years, composites containing nanoparticles of various shapes and nature have been of great interest. The creation of new nanocomposite materials should significantly improve the various properties of already widely known and practically used polymers. Such materials are of high demand in different fields of modern life. The development of high-performance polymer fibers is very important for various fields and applications. Nowadays, the most common technologies for the production of industrial fibers from synthetic and natural polymers are melt- and wet-spinning. However, it is evident that the preparation of nanocomposite polymer fibers can be associated with noticeable difficulties; namely, the uniform distribution of nanoparticles in the polymer matrix, improving adhesion between the polymer and nanofiller, etc. It is my pleasure to invite all scientists to contribute their manuscripts to this Special Issue.

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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