Special Issue

Advances in Functional Polymers and Nanocomposites (Second Edition)

Message from the Guest Editors

"Functional polymers" are polymers that have one or more specific chemical groups that provide them with specific characteristics. As a result, they exhibit interesting physical, biological, pharmacological, or other properties. Functional polymers find applications in many areas, such as drug delivery, tissue engineering, medical devices, food packaging, sensors, optoelectronics, organic light-emitting diodes, batteries, and wastewater treatment. Polymeric nanocomposites (PNCs) are nanomaterials made of nanoparticles dispersed in a polymer matrix. These structures combine both components and leverage their synergistic action, resulting in a new material with a variety of applications. These include improved electronic, ionic, mechanical, and chemical properties with a wide range of applications. Polymer nanocomposites are important materials for industrial and research purposes and are widely used in packaging, energy, security, transportation, electromagnetic shielding, defense systems, sensors, catalysis, and information industries. We look forward to receiving your contributions.

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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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