Special Issue

Functional Polymer Materials: From Materials Design to Performance Modulation

Message from the Guest Editor

I am pleased to invite you to submit a manuscript for the Special Issue titled “Functional Polymer Materials: From Materials Design to Performance Modulation”. This Special Issue aims to collect articles dealing with active, intelligent, and multifunctional polymer materials, starting from molecular design to functional performance. Designing functional polymers begins with precise control over molecular structure, which dictates the emergent properties. Structure–property relationships represent the core of functionality. The true power of functional polymers lies in their responsiveness—their ability to adapt, react, or transform under external stimuli —and processing routes acting as performance modulators. Their lightweight nature, processability, and tunability make them ideal for next-generation technologies. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) conductive polymers, stimuli-responsive polymers, smart nanocomposites, energy storage devices, flexible electronics, and biomedical scaffolds. We look forward to receiving your contributions.

Guest Editor

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Message from the Editorial Board

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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