Special Issue

Synthesis–Processing–Structure–Property Interrelationship of Multifunctional Polymeric Materials and Natural Polymers

Message from the Guest Editor

Polymeric materials are widely used as their greatly comprehensive properties, such as light weight, low cost, easy processability, corrosion resistance, improved design options, etc. However, in order to employ polymers as the next generation of advanced materials, their physical properties must be significantly improved. Meanwhile, with the increasing concern regarding the undesirable environmental and socioeconomic consequences of petrochemicals and limited fossil resources, biomass, bio-based polymers, and other renewable natural resources have increasingly become alternatives for the production of functional materials. Therefore, it is also necessary to focus on low-carbon chemistry, such as the utilization of biomass and transformation of renewable biomass-derived platform chemicals into functional polymeric materials. In this regard, this Special Issue aims to create an interdisciplinary forum of discussion on applications and advancements in the area of the development of polymeric materials and natural polymers. We are delighted to invite you to contribute to this Special Issue your work in the form of full research articles, communications, or reviews.

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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