Special Issue

Inorganic and Hybrid Polymers

Message from the Guest Editor

The ease of fabrication and wide range of useful and tailorable properties make synthetic polymers irreplaceable in the modern world, and with the obvious exception of polysiloxanes (silicones), the vast majority of these consist of carbon-based organic macromolecules. However, incorporating inorganic moieties, either into the polymer main-chains to give inorganic polymers, or as hybrids incorporating inorganic moieties, opens up a rich chemistry and fascinating possibilities. While even nature makes use of inorganic polymers, for example, DNA phosphorus backbone, the possibilities of inorganic polymers remain to be exploited in the world of synthetic polymers. Nevertheless, there is a blossoming research field involving inorganic and hybrid polymers, including elements from across the periodic table and with applications ranging from biomedicine to flexible electronics. This Special Issue is dedicated to recent developments in the field of inorganic and hybrid polymers, from investigations of fundamental principles through to the synthesis and development of multifunctional advanced materials and their applications,

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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