Special Issue

Novel Polymeric Materials for High-Performance and Biomedical Applications

Message from the Guest Editors

The development of novel polymeric materials represents an innovative and promising approach that plays an essential role in solving many of today's global challenges, from environment to health.
Currently, our modern lifestyle is dependent to a large extent on the use of polymer-based high-performance materials. These are designed to accomplish the expected performance and multi-function objectives required in a large variety of environmental applications (devices, sensors, coatings, insulation, gas separations and water treatement) and biomedical applications (biosensors, wound healing, drug delivery systems, tissue engineering, materials/surface with antimicrobial properties).
This Special Issue is dedicated to the latest developments in polymer materials (natural and synthetic) and polymer composites with properties enabling them to be used in high-performance and biomedical applications and encompassing topics situated at the interdisciplinary interface of polymer chemistry, physics and biochemistry. Full papers, communications, and reviews are all welcome.

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Message from the Editor-in-Chief

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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