Special Issue

Functional Stimuli-Responsive Polymeric Materials for Optical and Biomedical Applications

Message from the Guest Editor

Smart polymers progressed as key actors in a plethora of applications, spanning drug delivery, tissue engineering, biosensors, diagnostics, smart optical systems, microelectromechanical systems, membranes and textiles. Based on the convergence of polymer science, engineering, biology and medicine, some of these materials reached the maturity for commercialization, while many more build an enormous applicative potential. Finally, the stimuli-responsive concept promises materials which are able to ensure a desired shelf life firmness and function followed by on-demand degradation. This Special Issue of *Materials* is dedicated to the field of smart polymeric materials and collects original, high-quality research covering state-of-the-art topics related to functional stimuli-responsive macromolecular architectures. It is our pleasure to invite you to contribute full papers, communications, and reviews dealing with innovations, challenges, and perspectives concerning design, preparation, structure-property insights and applications of stimuli-responsive polymers and materials based on them, with an emphasis on optical and biomedical applications.

Guest Editor

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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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