Special Issue

Advanced Hydrogel and Biopolymer: Synthesis, Characterization and Applications

Message from the Guest Editor

For several years, biopolymer materials have been enjoying the growing interest of researchers and various fields of industry. The great advantages of biopolymers are their natural origin, biodegradability, and biocompatibility. This is why they are used in medicine, pharmacy, cosmetics, food production, agriculture, etc. A large group of biopolymer materials are hydrogels—hydrophilic polymer networks. Hydrogels made of appropriately selected biopolymers may have very specific properties and the ability to respond to different stimuli. Thus, they can be applied as, e.g., wound dressings, systems for the controlled delivery of active substances, or scaffolds for cell culture. Thus, new sources of biopolymers and more effective and less expensive methods for the preparation of the materials, as well as modern areas of applications, are still investigated. It is my pleasure to invite you to submit a manuscript to this Special Issue. Full research papers, communications, as well as reviews related to the synthesis, characterization, and applications of hydrogels and biopolymer materials are all warmly welcome.

Guest Editor

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Deadline for manuscript submissions

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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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