Special Issue

Functional Hydrogels: Design, Properties and Applications

Message from the Guest Editor

Hydrogels are three-dimensional polymeric networks that can absorb and retain a large amount of water or biological fluids, making them suitable for a variety of applications in the fields of biomedical engineering, drug delivery, tissue engineering, and electronic skin. The aim of this Special Issue is to bring together researchers and practitioners from different fields to share their knowledge and expertise on the design, properties, and applications of hydrogels. The Special Issue covers a broad range of topics related to hydrogel design, properties, and applications. Some of the key themes include the design and synthesis of hydrogels with tailored properties for specific applications, the properties of hydrogels and their applications in various fields, and the development of new methods for characterizing and analyzing hydrogels. The articles in this Special Issue provide valuable insights for researchers and practitioners working in this area and highlight the exciting opportunities for future research in this field.

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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