

Special Issue

Hydrogels: Preparation, Characterization, and Applications

Message from the Guest Editor

Hydrogel platforms can recapitulate the native microenvironment of a variety of tissues and stem cells. Through the hydrogel encapsulation of stem cells and the targeted delivery of growth factors, exciting organoids have been proposed either as research tools or as potentially transplantable, functional organs. From bone repair via biodegradable structures to neural tissue engineering via hybrid platforms, hydrogels are ubiquitous and are revolutionizing medicine. In this Special Issue, we are interested in publishing novel hydrogel formulations and their characterization, fabrication, and assembly techniques, including 3D bioprinting and applications from the research lab to the clinic.

It is our pleasure to invite you to submit a manuscript for this Special Issue. We welcome the submission of full papers, communications, and reviews.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editorial Board

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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