



Hydrogels: Preparation, Characterization, and Applications

Guest Editor:

Dr. Evangelos Delivopoulos

Biomedical Engineering, School
of Biological Sciences, University
of Reading, Reading, UK

Deadline for manuscript
submissions:

closed (31 January 2022)

Message from the Guest Editor

Dear Colleagues,

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)