



gels



an Open Access Journal by MDPI

Multifunctional Hydrogel Platforms for Tissue Engineering and Biomedical Applications

Guest Editor:

Dr. Dinesh K. Patel

School of Chemical Engineering,
Yeungnam University,
Gyeongsan-si 38541, Republic of
Korea

Deadline for manuscript
submissions:

closed (31 March 2024)

Message from the Guest Editor

Dear Colleagues,

Tissue loss or bone damage through injury or disease is a challenging task worldwide and rapidly increasing with society's development. The native tissue has limited self-regeneration potential, insufficient to regenerate or repair the critical defects. The availability of the donor is also limited. Therefore, we must develop an alternative and fascinating approach, rapidly regenerating or repairing damaged tissues. Tissue engineering involves using of biomaterials, growth factors, and associated cells. Hence, the selection and development of biomaterials are the most critical task of tissue engineering. The biomaterials should accelerate cell adhesion, proliferation, and differentiation.

This Special Issue explores the fabrication of multifunctional hydrogels for tissue engineering and biomedical applications. We hope this special issue will receive the current state of the art and explore different applications in tissue engineering and biomedical fields.

Dr. Dinesh K. Patel
Guest Editor



mdpi.com/si/170917

Special Issue



gels



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Esmail Jabbari

Biomimetic Materials and Tissue
Engineering Laboratory,
Department of Chemical
Engineering, University of South
Carolina, Columbia, SC 29208,
USA

Message from the Editor-in-Chief

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

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](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q1 (*Polymer Science*)

Contact Us

Gels Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/gels
gels@mdpi.com
[X@Gels_MDPI](#)