

Special Issue

Hybrid and Composite Biomaterials for Healthcare: Toward Innovative Approaches

Message from the Guest Editors

Biomedical applications require scaffolds to support cell colonization and allow tissue repair in bone regeneration, wound healing, and 3D cell culture development. These scaffolds must be biocompatible, mechanically suitable, have a proper surface state, be biodegradable, and exhibit bioactive features. Composite and hybrid systems that combine different components can lead to synergistic effects and enhanced properties for implantable medical devices or in vitro supports. Novel strategies are being developed towards more efficient and less invasive approaches for tomorrow's medicine. This Special Issue aims to gather, in a single open-access Special Issue, the latest innovative approaches regarding 2D or 3D hybrid or composite biomaterials, possibly associated with ionic or molecular active agents, where the intrinsic characteristics of each component bring specific added-value features in view of improved biological response. Considering your expertise in the domain, it is our pleasure to invite you to contribute to this Special Issue. Reviews, full papers, and short communications would be greatly appreciated.

Guest Editors

Dr. Christophe Drouet

CIRIMAT, University of Toulouse, CNRS, Toulouse INP, 31000 Toulouse, France

Dr. Sylvain Le Grill

CIRIMAT, University of Toulouse, CNRS, Toulouse INP, 31000 Toulouse, France

Deadline for manuscript submissions

closed (31 December 2024)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/168635

Bioengineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)





Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Biomedical) Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.