

Special Issue

Emerging Nanomaterials and Nanotechnologies for Biomedical and Related Applications

Message from the Guest Editors

This Special Issue aims to explore the cutting-edge research and advancements in nanotechnology, as well as their transformative impact on biomedical science, engineering, and healthcare applications. This Special Issue focuses on innovative nanomaterials and nanoscale technologies designed to address critical challenges, including diagnostics, therapeutics, drug delivery, biosensing, tissue engineering, antimicrobials, and other applications. It seeks to highlight interdisciplinary research that bridges chemistry, materials science, biology, and medicine, fostering new strategies for improving patient outcomes and advancing precision medicine. Through this collection, the Special Issue aims to showcase novel methodologies, applications, and perspectives, emphasizing the potential of nanomaterials and nanotechnology in revolutionizing modern biomedical practices and to accelerate the translation of nanotechnology into practical healthcare solutions.

Guest Editors

Prof. Dr. Dipak Maity

1. Nanosystems Development Institute, Indiana University, Indianapolis, IN, USA
2. Department of Chemistry and Chemical Biology, Indiana University, Indianapolis, IN, USA

Prof. Dr. Mangilal Agarwal

Integrated Nanosystems Development Institute (INDI), Biomedical Engineering and Informatics, Indiana University, Indianapolis, IN, USA

Deadline for manuscript submissions

30 June 2026



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/226362

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 17 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).