

Special Issue

Next-Generation 3D Bioprinting and Additive Manufacturing: From Digital Design to Functional Biomimetic Systems

Message from the Guest Editors

This Special Issue explores the next generation of additive manufacturing technologies, focusing on the full workflow from digital design to the realization of functional systems. Particular attention will be given to innovations in 3D printing and bioprinting that enable the fabrication of complex, bioinspired structures and materials. We request papers addressing advances in printable biomaterials, design methodologies, multi-material integration, and functional characterization. This Special Issue will bridge the gap between conceptual modeling and real-world applications in biomedical engineering, soft robotics, and smart devices.

Guest Editors

Dr. Jesús Manuel Rodríguez Rego
Dr. Alfonso Carlos Marcos Romero
Prof. Dr. Silvia María Díaz Prado

Deadline for manuscript submissions

31 August 2026



Biomimetics

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 4.2
Indexed in PubMed



mdpi.com/si/250013

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

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





Biomimetics

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 4.2
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Stanislav N. Gorb

Department of Functional Morphology and Biomechanics, Zoological
Institute, Kiel University, 24118 Kiel, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed,
PMC, Ei Compendex, CAPlus / SciFinder, and other
databases.

Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q2
(Biomedical Engineering)

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 3.8
days (median values for papers published in this journal in
the second half of 2025).