

Special Issue

Advanced Biomaterials, Biodevices, and Their Application

Message from the Guest Editors

This Special Issue, titled "Advanced Biomaterials, Biodevices, and Their Application", aims to highlight recent breakthroughs in the design, development, and deployment of biomaterials and biodevices across medical, environmental, and industrial fields. As interdisciplinary innovations accelerate, novel biomaterials—ranging from smart polymers and bioinspired composites to tissue scaffolds and regenerative matrices—are increasingly integrated with advanced biodevices, such as biosensors, wearable systems, and implantable technologies. This Special Issue will focus on the synthesis, functionalization, characterization, and application of cutting-edge biomaterials, as well as the engineering and clinical translation of biodevices. Contributions will cover experimental studies, theoretical modeling, and real-world applications that address critical challenges in healthcare (e.g., diagnostics, drug delivery, and regenerative medicine), sustainable development, and personalized therapy. We invite original research articles, reviews that explore new material-biodevice interfaces, scalable fabrication techniques, and emerging technologies, such as bioelectronics and soft robotics.

Guest Editors

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Deadline for manuscript submissions

30 June 2026



Micromachines

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Impact Factor 3.0

CiteScore 6.0

Indexed in PubMed



mdpi.com/si/239679

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