

# Call for Papers: Special Issue on Functional Materials for Sustainable Biomedical Engineering of the Journal of BME Frontiers

## SCOPE

The special issue entitled “**Functional Materials for Sustainable Biomedical Engineering**” aims to explore trends and state-of-the-art functional materials investigated to support next-generation biomedical engineering. Based on a careful assessment of the advancements in biomedical engineering, it is observed that the optimized integration of applied functional materials is essential to design and develop advanced medical devices and technology. The optimized interfacing of functional tailored materials and biomedical engineering ultimately enhances the healthcare quality and transformative aspects.

To achieve the task of high performance affordably without adverse effects, the focus is to explore the principles of green chemistry and renewable resources for developing biocompatible, biodegradable, and environmentally friendly materials. These materials are tailored with specific properties to address biomedical challenges in specific diagnostics, targeted drug delivery, tissue engineering, and medical devices for personalized health wellness. The designing of such functional materials not only improves healthcare outcomes but also reduces environment-related adverse effects, aligning with the goals of sustainable development. Continuous research in this field holds the potential to revolutionize biomedical engineering, fostering a future where healthcare innovations prioritize both human well-being and planetary health.

We request you to submit your article (both research and review articles) to this special issue if it aligns well with the following topics:

- *Sustainable Functional Materials*
- *Biomaterials*
- *Biomimetic Structures*
- *Biosensing*
- *Drug Delivery Systems*
- *Point of care Diagnostics*
- *Personalized Nanomedicine*

## SUBMISSION GUIDELINES

You are invited to submit your manuscript at any time before the submission deadline. For any inquiries about the appropriateness of contribution topics, please contact Guest Editors.

The journal’s [submission platform](#) will be available for receiving submissions to this Special Issue from **15 May 2024**. Please refer to [the Guide for Authors](#) to prepare your manuscript and select the article type when submitting your manuscript online. Both the Guide for Authors and the submission portal could be found on the [Journal BMEF Homepage](#).

[Articles](#) published in a special issue must adhere to the same evaluation criteria and publication ethics as a regular article published in the journal. The peer review process for a special issue

manuscript also follows the same peer review process as a regular manuscript submitted to the journal. Abstracts submitted to the international conference on “Engineered Materials for Sustainable Development” (<https://emsd2024.in/>) are welcome to be converted to full papers for the Special Issue.

The journal *BMEF* is an Open Access journal supported by article processing charges (APCs). However, authors whose work is accepted for publication in the special issue of BMEF **will not be responsible for paying APCs**.

**SUBMISSION DEADLINE: 31 July 2024**

#### **ABOUT THE JOURNAL BME FRONTIERS**

BMEF (BME Frontiers) is a Science Partner Journal distributed by the American Association for the Advancement of Science (AAAS). To learn more about the Science Partner Journal program, visit the [SPJ program homepage](#).

BMEF (BME Frontiers) is indexed in: Web of Science, Emerging Sources Citation Index (ESCI), PubMed Central (PMC), Scopus, Chinese National Knowledge Infrastructure (CNKI), Directory of Open Access Journals (DOAJ), Ei Compindex, Inspec, etc. The 1st Impact Factor is to be announced in July 2024.

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