Special Issue

Intelligent Nanomaterials and Nanorobots for Disease Diagnosis and Treatment

Message from the Guest Editor

With the rapid development and wide applications of nanotechnology, Intelligent Nanomaterials and Nanorobots have been applied to local diagnoses and targeted therapies for patients with various diseases including cancer, diabetes, inflammatory disorders, and cardiovascular diseases. In comparison with conventional nanomaterials in biofluids. Intelligent Nanomaterials and Nanorobots can effectively convert diverse energy sources into movement and force. allowing effective self-propulsion in complex biological environments and physiological barriers. Therefore, Intelligent Nanomaterials and Nanorobots hold great potential for efficient cargo loading, controllable cargo delivery, stimuli-triggered cargo release, deeper tumor tissue penetration, and enhanced cargo accumulation in tumor tissues, exhibiting an exciting prospect for disease diagnosis and treatment.

This Special Issue emphasizes the construction of novel Intelligent Nanomaterials and Nanorobots, with a special focus on their potential advantages and applications for local diagnosis and targeted therapy.

Guest Editor

Dr. Wenjun Li Shenzhen Institutes of Advanced Technology (SIAT), Chinese Academy of Sciences, Shenzhen 518055, China

Deadline for manuscript submissions

31 July 2025



Bioengineering

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 5.3 Indexed in PubMed



mdpi.com/si/179828

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

mdpi.com/journal/

bioengineering





Bioengineering

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 5.3 Indexed in PubMed





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, CAPlus / 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.