





an Open Access Journal by MDPI

Biopolymers and Nano-Objects Applications in Bioengineering

Guest Editor:

Dr. Gary Chinga CarrascoRISE PFI, Høgskoleringen 6b,
7491 Trondheim, Norway

Deadline for manuscript submissions:

30 September 2024

Message from the Guest Editor

Biopolymers and engineered nano-objects (nanoparticles, nanoplates and nanofibers) can have applications within several areas of research and development, including, food engineering, biology and medicine. Nano-scale structures provide a series of advantages, including tunable physical properties and surface chemistry that can be modified for targeted applications. Additionally, biopolymers and nanoobjects are important materials for additive manufacturing (3D printing, bioprinting) and biomedicine. This includes the design of tailored medical devices, in vitro 3D substrates for tissue engineering and regenerative medicine, as well as tissue models as drug-testing platforms. Such applications may also be aided by machine learning and artificial intelligence approaches in a bioengineering perspective and to enable patient-specific healthcare services. However, the synthesis modification of nano-structures require manipulation at the nano-scale. This may imply a radical modification of the polymers' physical and chemical properties, and may have significant biological effects.













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Engineering, Biomedical)

Contact Us