

Special Issue

Machine Learning in Biomaterials, Biostructures and Bioinformatics

Message from the Guest Editors

Recent advances in bioprinting have provided a versatile technology platform for the rapid manufacturing of engineered biomaterials and smart structures. At the same time, there has been a surge in the use of machine learning (ML) to bioprinting-relevant research such as medical imaging and segmentation, optimization of bioinks or bioprinting processes, as well as in vitro parametric studies. Applying machine learning to design biomaterials, biofabrication, and biostructures is advantageous in terms of reducing experiment costs, developing customized designs, and optimizing materials and structures and biomechanical performance, yet there is still a significant knowledge gap preventing us from achieving the desired performance and functionality. This Special Issue aims to present a snapshot of the latest developments and current trends in this topic and address various novel applications to advance the current bioprinting technologies.

Guest Editors

Dr. Jie Sun

Prof. Dr. Kaizhu Huang

Dr. Sanjairaj Vijayavenkataraman

Deadline for manuscript submissions

closed (15 April 2023)



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.1



mdpi.com/si/116963

Processes
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.1



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



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Chemical) / CiteScore - Q2 (Chemical Engineering (miscellaneous))