

Special Issue

Patient-Tailored Biomimetic Scaffold Constructs for Bone Regeneration—Volume II

Message from the Guest Editors

To achieve an effective restoration of tissue morphology and functionality, new biomimetic systems and bone tissue engineering strategies are emerging as alternatives to bone grafting and conventional static scaffold compounds, in order to achieve the dynamic changes needed for the correct balance between mechanical strength and plasticity in the newly formed bone. This Special Issue aims to address the challenges in the development of new biomimetic systems and technologies in the field of bone regeneration and reconstruction, including new scaffold design and engineering novel biomaterials, innovative scaffold design, advanced (bio)printing and 4D printing techniques, scaffold–cell interactions, drug delivery and scaffold functionalization strategies, imaging techniques for ultrastructural characterization, and valuable state-of-the-art meta-analyses, in order to provide a complete and multidisciplinary vision of the faced thematic, from the engineering aspect to the biological and clinical point of view.

Guest Editors

Prof. Dr. Ilaria Cacciotti

Dr. Wanda Lattanzi

Dr. Alessandro Arcovito

Dr. Giuseppina Nocca

Deadline for manuscript submissions

closed (20 November 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 6.1



mdpi.com/si/84604

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

mdpi.com/journal/

[applsci](https://doi.org/10.3390/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 6.1



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, 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, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (Fluid Flow and Transfer Processes)