

Special Issue

Advances in Biocomposite Materials for Regenerative Medicine and Biomedical Applications

Message from the Guest Editor

Biocomposite materials, which combine natural and synthetic components, offer unique advantages such as biocompatibility, tunable mechanical properties, and bioactive functionalities, making them ideal for tissue regeneration. This Special Issue aims to highlight recent advances in biocomposite design, fabrication, and applications in biomedical and regenerative fields. Topics include scaffold-based systems for tissue engineering, injectable biocomposites for minimally invasive treatments, bioactive and stimuli-responsive materials, and composite hydrogels for soft tissue regeneration. We also welcome studies on novel fabrication techniques (e.g., 3D printing, bioassembly) and in vitro/in vivo evaluations. By bringing together cutting-edge research, this Special Issue seeks to provide an overview of the latest developments in biocomposite materials and their clinical translation. Contributions from multidisciplinary fields are encouraged to foster collaboration and innovation in the development of next-generation biomaterials for healthcare.

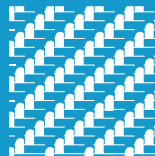
Guest Editor

Dr. Paolo Savadori

Unit of Dentistry & Oral-Maxillo-Facial Surgery, Department of Surgery, Medicine, Dentistry and Morphological Sciences, University of Modena and Reggio Emilia, Modena, Italy

Deadline for manuscript submissions

20 August 2025



Journal of Composites Science

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.8



mdpi.com/si/230692

Journal of Composites Science
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcs@mdpi.com

mdpi.com/journal/

[jcs](https://jcs.mdpi.com)





Journal of Composites Science

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.8



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Dr. Francesco Tornabene
Department of Innovation Engineering, University of Salento, 73100
Lecce, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Materials Science, Composites) / CiteScore - Q1 (Engineering (miscellaneous))