

## Special Issue

# Current Updates on Ultrasound for Biomedical Applications

### Message from the Guest Editors

The biomedical applications of ultrasound are experiencing rapid advancements, as technologies, methodologies, and applications are continuously developing. This Special Issue aims to showcase the latest progress in ultrasound research for biomedical purposes, encompassing its diagnostic and therapeutic applications. We invite contributions that span a wide range of topics including, but not limited to:

- Diagnostic imaging techniques: advancements in ultrasound imaging methodologies for medical diagnosis.
- Therapeutic ultrasound: innovations in ultrasound technologies for therapeutic interventions, such as high-intensity focused ultrasound (HIFU) and low-intensity pulsed ultrasound (LIPUS).
- Ultrasound-triggered drug delivery systems.
- Interdisciplinary approaches to integrating ultrasound with other biomedical tools.

---

### Guest Editors

Dr. Andrea Cafarelli

The BioRobotics Institute, Scuola Superiore Sant'Anna, 56127 Pisa, Italy

Dr. Allegra Conti

Regenerative Technologies Lab at the BioRobotics Institute of Scuola Superiore Sant'Anna, 56127 Pisa, Italy

---

### Deadline for manuscript submissions

closed (30 September 2025)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/195786](https://mdpi.com/si/195786)

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

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[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 (General Engineering )