



an Open Access Journal by MDPI

## Advanced Ultrasound Technology for Medical Application

Guest Editors:

**Dr. Francisco Camarena**

Applied Physics Department,  
Universitat Politècnica de  
València, 46022 Valencia, Spain;  
Instituto de Instrumentación  
para Imagen Molecular

**Dr. Noé Jiménez**

Instituto de Instrumentación  
para Imagen Molecular (I3M),  
Consejo Superior de  
Investigaciones Científicas (CSIC)  
—Universitat Politècnica de  
València, 46022 Valencia, Spain

**Dr. Alejandro Cebrecos**

Instituto de Instrumentación  
para Imagen Molecular (I3M),  
Consejo Superior de  
Investigaciones Científicas  
(CSIC)-Universitat Politècnica de  
València, 46011 València, Spain

Deadline for manuscript  
submissions:

**closed (31 December 2019)**



[mdpi.com/si/25548](https://mdpi.com/si/25548)

### Message from the Guest Editors

Ultrasound technology has been extensively applied to the medical field in recent decades. And new advances in transducer technology, signal processing and contrast agents as well as the use of combined technologies, such as photoacoustics or magneto-motive ultrasound, and the discovery of the possibility of applying ultrasound to neuromodulation or immunotherapy open new areas for the use of ultrasound in medical application.

This Special Issue calls for high-quality unpublished research works related to the use of advanced ultrasound technology for medical application. Potential topics include, but are not limited to, the following:

- Ultrasound imaging
- Focused ultrasound
- Elastography
- Photoacoustic
- Magneto-motive ultrasound
- Theranostics
- Tissue characterization
- Transcranial propagation
- Medical signal processing
- Contrast agents
- Biomedical transducers

Keywords: ultrasound imaging; ultrasound therapy; elastography; photoacoustics; transcranial propagation; magneto-motive ultrasound; contrast agents



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## 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.

## 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), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)