

Ultrasound Transducers

Collection Editors:

Prof. Dr. Xiaoning Jiang

Department of Mechanical &
Aerospace Engineering, North
Carolina State University, 911
Oval Drive, Raleigh, NC 27695,
USA

Dr. Jianguo Ma

School of Instrumentation and
Optoelectronic Engineering,
Beihang University, Beijing
100191, China

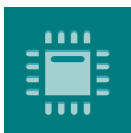
Message from the Collection Editors

In this Topical Collection, we look forward to receiving papers on a wide range of research topics, including but not limited to the following themes:

- Ultrasound transducer materials/metamaterials and structures;
- Design and fabrication of various ultrasound transducers, such as piezoelectric, CMUT, PMUT, PC-MUT, and other types of transducers and transducer arrays;
- Ultrasonic-wave-involved multi-physics transduction, including photoacoustics, optical fiber-based ultrasonic sensing, micro-ring ultrasonic sensing, magnetoacoustic tomography, etc.;
- Transducer characterization technologies;
- Integration of ultrasonic systems, including electrical excitation, signal processing, impedance matching, ASIC, etc.;
- Applications of ultrasound transducers, including biomedical imaging, therapeutic intervention, NDT, acoustic tweezing, smart electronics, ultrasound gene transfection, acoustic-assisted manufacturing, etc.

For this Topical Collection, you are welcome to submit review articles or original research associated with ultrasound transducers and their applications.





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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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