Topical Collection

Ultrasound Transducers

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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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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