



Ultrasound Transducers

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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

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