

Special Issue

Ultrasonic Transducers and Related Apparatus and Applications

Message from the Guest Editor

This issue is dedicated to ultrasound tools, from transduction to signal processing. Articles reporting both basic and applied research are welcome. Topics include but are not limited to: Ultrasound transduction:

- Materials for ultrasound transduction: piezoelectric, ferroelectric, etc.;
- Other means for ultrasound generation: electric discharge, laser, friction;
- Transducer design, manufacturing, evaluation and testing;
- Propagation studies: water coupling, couplants, nozzles, air-coupling, contact;
- ultrasound for motion: ultrasonic motor, piezo actuators, cavitation, drug delivery, sonoporation, sonochemistry, particle manipulation, industrial processing tools;

Signal technologies:

- Signal sources for ultrasound generation: electric signals generators, pulsers, and amplifiers;
- Signals used: pulse, chirp, coded sequences;
- Automation;
- Acquisition equipment;
- Signal processing techniques;
- Signal processing instrumentation;
- Imaging and measurements.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2021)



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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

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