Special Issue

Ultrasonic Transducers in Next-Generation Application

Message from the Guest Editor

Ultrasonic technology is used in sensing and communication with ultrasonic signals, and the range of its application is expanding further still with high-resolution capabilities. Ultrasonic transducers, which are devices that generate ultrasonic waves, are being applied in various fields such as medicine, the automotive industry, and for engineering sensors. Depending on the application, the technology is implemented in various ways—such as mechanical processes and semiconductor processes—and, structurally, it is made in various ways, depending on the shape, signal mode (e.g., piezoelectric or capacitive micromachined ultrasonic transducers—CMUTs), and number of arrays. In this Special Issue, we invite all the original research and review papers to discuss next-generation ultrasonic transducer technology along with various recent developments related to the design, manufacture, materials, signal, interface electronics, platform, reliability, and applications of ultrasonic transducers.

Guest Editor

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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.

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