Topical Collection

Piezoelectric Transducers: Materials, Devices and Applications

Message from the Collection Editor

Advances in the miniaturization of sensors, actuators, and smart systems are receiving substantial industrial attention, and a wide variety of transducers have been made commercially available or possess the high potential to impact emerging markets. It is now possible to substitute existing products based on bulk materials with those with a reduced size, lower cost, and higher performance in the automotive, environment, food, robotics, medicine, biotechnology and communications fields, with potential for manufacturing using advanced silicon integrated circuit technology or alternative additive techniques from the milli- to nano-scale. In this Topical Collection focused on piezoelectric transducers, including the design, fabrication, characterization, packaging, and system integration or final applications of transducers based on milli/micro/nano-electro-mechanical systems:

- Materials research oriented towards piezoelectric transducers and intelligent systems.
- Processes and fabrication technologies for piezoelectric sensors and actuators.
- Modeling, design, and simulation of piezoelectric transducer devices.
- Resonant and traveling-wave piezoelectric sensors and actuators.

Collection Editor

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