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

Prof. Dr. Jose Luis Sanchez-Rojas
Microsystems, Actuators and Sensors Laboratory, INAMOL-Universidad de Castilla-La Mancha, 45071 Toledo, Spain

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/189547

Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

mdpi.com/journal/micromachines

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/journal/micromachines

About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Nam-Trung Nguyen
Queensland Quantum and Advanced Technologies Research Institute, Griffith University, West Creek Road, Nathan, QLD 4111, Australia

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).

MDPI