



IWPMA (International Workshop on Piezoelectric Materials and Applications in Actuators) 2020

Guest Editors:

Prof. Dr. Jörg Wallaschek

Institute of Dynamics and
Vibration Research, Leibniz
Universität Hannover, 30823
Garbsen, Germany

Dr. Jens Twiefel

Institute of Dynamics and
Vibration Research, Leibniz
Universität Hannover, 30823
Garbsen, Germany

Dr. Yongke Yan

Department of Materials Science
and Engineering, Penn State
College of Earth and Mineral
Sciences, 230 Innovation Blvd,
Room 108 The 230 Bldg, State
College, PA 16803, USA

Deadline for manuscript
submissions:

closed (10 January 2022)



mdpi.com/si/61011

Message from the Guest Editors

The objective of IWPMA 2020 is to gather researchers in a unique and successful international workshop to share their latest discoveries in terms of piezoelectric materials and their application in actuators, and more generally, energy conversion devices, thus pioneering and shaping the future of piezoelectric materials and devices. The topics of the joint issue cover but are not limited to the following items:

Piezoelectric material and structures

- Synthesis and elaboration: ceramics; Polymers, single crystals, lead-free materials; Multiferroic materials and systems; Piezoelectric metamaterials and metastructures; Manufacturing processes;

Modeling and Characterization

- Multiphysics modeling involving piezoelectric/flexoelectric effects; Piezoelectric material and device modeling; Numerical methods; Experimental methods.

Devices and Systems

- MEMS devices (actuators and sensors); Solid state actuators; Composite sensors/actuators; Ultrasonic and acoustic devices; Piezoelectric transformers; Piezo-based structural health monitoring; Energy harvesting structures; Drive circuits for piezoelectric devices; Electrical interfaces for energy harvesting.



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)