Special Issue

Ferroelectric Materials and Piezoelectric Actuators

Message from the Guest Editors

Ferroelectric materials have wide promising applications in computer RAM, sensing, imaging, chemical reaction catalyses, precision driving motors, micro/nano/molecular manipulations, energy harvesting, transduction, etc. This Special Issue covers the latest advances in ferroelectric materials, piezoelectric actuators, and their applications. Thematic areas include (i) the relationships between the processing, structure, microstructure, and functional response of ferroelectric and related materials in the form of bulk polycrystalline ceramics, single crystals, and thick or thin films, (ii) novel functionalities or a combination of properties oriented toward new application areas, and (iii) the modeling and characterization of piezoelectric materials and their performance in a wide range of devices and applications.

Guest Editors

Prof. Dr. Junhui Hu
Prof. Dr. Tadej Rojac
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Deadline for manuscript submissions

closed (31 August 2021)

Actuators

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.3

mdpi.com/si/78095

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About the Journal

Message from the Editorial Board

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of $1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: “Performance to Reliability”, “Hard to Soft”, “Macro to Nano”, “Homo to Hetero” and “Single to Multi functional”. We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

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