Special Issue

Recent Advances in Magnetoelectric Materials and Devices

Message from the Guest Editors

Over the last several decades, the magnetoelectric (ME) effect has advanced rapidly and significantly, attracting both research and industrial attention. ME materials have been created in bulk and thin film, including single-phase compounds and composites such as piezoelectric/magnetostrictive composites in layered, granular, or pillared form via strain-mediated contact. ME materials exhibit a wide range of successful device applications, including ME antennas, magnetic field sensors, and actuators, to mention a few, that are lightweight, tiny, and low power and are dramatically transforming our daily lives. Both potential and challenges abound from the perspective of ME materials and devices, and many unanswered questions remain. Accordingly, this Special Issue seeks to showcase research papers, and review articles that focus on (1) new design, fabrication, characterization of ME materials in either single phase or composite form; and (2) modeling and characterization of ME devices with various configurations.

Guest Editors

Dr. Yiwen Zhang

School of Materials Science and Engineering, Tianjin University, Tianjin 300350, China

Dr. Yang Cao

Frontier Research Institute for Interdisciplinary Sciences, Tohoku University, Sendai 980-8578, Japan

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

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Message from the Editor-in-Chief

Micromachines (ISSN 2072-666X) is a forum for cutting-edge interdisciplinary research on micro and nanoscale science and technology. We emphasise the practical, real-world value of micro and nanotechnologies that will place *Micromachines* in a leading position among engineering and technology journals.

Editor-in-Chief

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

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