Special Issue

Piezoelectric Materials

Message from the Guest Editors

Efficient energy conversion materials have attracted great attention from an environmentally friendly point of view, especially in 21th century. Piezoelectric materials have a wide range of applications, for example, as ultrasonic transducers, actuators, pressure sensors, surface acoustic wave sensors, just to name a few. They are one of the key energy materials which can be used to carry out the conversion from mechanical energy to electric energy. Piezoelectric energy harvesting is one of the central issues in this field. To increase the conversion efficiency, it is necessary to acquire more fundamental insights into the microscopic origin of superior piezoelectric performances and the ferroelectric–ferroelastic phase transition behaviors. Moreover, the material design for an efficient lead-free piezoelectric system, the efficient coupling of different-order parameters in multiferroics, and the nano-scale engineering of piezo-devices are other hot issues in this field. This Special Issue aims at encouraging researchers to describe the recent state-of-the-art developments and their achievements in these topics.

Guest Editors

Prof. Dr. Jae-Hyeon Ko

Department of Physics, Hallym University, Chuncheon, Gangwondo 24252, Republic of Korea

Prof. Dr. Sang-Don Bu

Department of Physics, Chonbuk National University, Jeonju, Jeollabukdo 54896, Korea

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

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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