

Special Issue

Flexoelectric Effect in Dielectric Materials

Message from the Guest Editors

Flexoelectricity describes a universal effect of dielectric materials whereby a net polarization is induced by strain gradients. This broadens the potential of nonpiezoelectric materials in applications such as sensors, actuators, and energy harvesters.

Considerable research efforts have recently been devoted to the field of flexoelectric effects, deepening our current understanding of flexoelectricity in both fundamental and application aspects. This Special Issue aims to report the progress of research on the different aspects related to flexoelectric effects in dielectric materials. Both review articles and original research works are welcome. The topics of interest for publication include, but are not limited to:

- Theories and modelling of flexoelectricity;
- Theoretical and experimental determination of flexoelectricity;
- Mechanisms of enhanced flexoelectric(-like) effects;
- Novel flexoelectric(-like) materials and structures;
- Dynamic flexoelectric effect;
- Manifestation of flexoelectric effects in material properties;
- Applications and perspectives of flexoelectricity.

Guest Editors

Dr. Xu Liang
Dr. Weijin Chen
Dr. Qian Deng

Deadline for manuscript submissions

closed (30 September 2022)



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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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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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