Special Issue

Advanced Magnetoelectric Sensors: Materials, Design and Applications

Message from the Guest Editors

Magnetoelectric (ME) sensors based on piezoelectric/ferromagnetic ME composites have gained attention for futuristic device applications due to their low cost, easy fabrication, high sensitivity, and room temperature operation. This Special Issue aims to highlight the current advances in the field of magnetoelectric sensors, including but not limited to the following topics:

- New magnetoelectric composite materials;
- Novel fabrication processes for magnetoelectric sensors;
- Nano/micro-electromechanical systems (N/MEMSs) acoustic resonator-based magnetoelectric sensors;
- Theory, modeling, and optimization of magnetoelectric sensors;
- Magnetoelectric current sensors, self-powered sensors;
- Magnetoelectric energy harvesters;
- Signal modulation and delta-E (ΔE) effect-based magnetoelectric sensors;
- Noise analysis of magnetoelectric sensors and readout systems.

Guest Editors

Dr. Zhongqiang Hu

Prof. Dr. Ming Liu

Dr. Jinghong Guo

Deadline for manuscript submissions

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

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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