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Piezoelectric Nano Structures for Sensor and Applications

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Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editors

Dear Colleagues,

Sensors have become ubiquitous in daily human life. Furthermore, piezoelectric materials are critical to the operation of many types of these sensors. For almost a century, bulk piezoelectric materials, such as thick films of quartz, lead zirconate titanate (PZT) etc., have been widely used in actuators. Beyond these state-of-the-art materials, with the advancement and widespread use of micro- and nano-scale manufacturing, assembly, and packaging technologies, the synthesis and incorporation of piezoelectric nanomaterials has become key. A variety of piezoelectric nanomaterials, including ZnO nanowires, PZT nanofibers, barium titanate nanoparticles, etc., have been explored to develop the next generation of applications, such as soft robotics and the Internet of Things.

This Special Issue on piezoelectric nano structures for sensor applications intends to highlight recent advancements in the nanomaterial synthesis of different piezoelectric materials, including inorganic, organic, and hybrid inorganic/organic nanocomposites for sensing applications.



mdpi.com/si/52360

Special Issue



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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

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