Special Issue

Ferroelectric Micro and Nano Sensors

Message from the Guest Editor

Due to their broad field of application, especially that of bio-inspired sensors and systems, ferroelectric micro and nanosensors represent an area of intense research. Mechanical and thermal energy transducers for applications at low, medium, and high ultrasonic frequencies (piezoelectric effect) and infrared (pyroelectric effect) have been employed in multiple contexts, with an ever-growing literature over the years. At the same time, during the last decade, the technology of polymeric miniaturized sensors has allowed the development of a long list of technological possibilities, leading to one of the fastest-growing markets. One of the most interesting applications concerns the development of sensors aimed at emulating the sophisticated and evolved sensorial systems already present in nature (e.g., biosonar system, tactile sensors). Accordingly, this Special Issue seeks to showcase research papers, short communications, and review articles that focus on novel methodological developments in the field of ferroelectric materials for the fabrication of micro and nanosensors and the related electronic interfaces.

Guest Editor

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