Special Issue

Electronic Processes in Ferroelectrics

Message from the Guest Editors

Ferroelectricity was discovered more than 100 years ago. Since then, ferroelectric materials have been intensively studied due to their unique properties (reversible polarization under applied electric field, presence of piezoelectric, pyroelectric, photovoltaic, and thermoelectric effects, nonlinear optical properties) that make them very attractive for a large variety of applications from domestic burglar alarms up to nonvolatile memories, micro(nano)-electro-mechanic systems, or microwave devices. This Special Issue addresses experimental and theoretical investigations of diverse aspects of the electronic behavior in ferroelectric materials and related structures. These aspects include but are not limited to charge transport, polarization switching, compensation of the depolarization field, negative capacitance, resistive switching, memristor and memcapacitor behavior, optical behavior, etc., and their relation to doping, defects, and interfaces (electrode interfaces, interfaces in heterostructures).

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I am delighted to introduce the new online open access journal *Electronic Materials* (ISSN 2673-3978). The aim of *Electronic Materials* is to publish high-quality and high-impact research papers, as well as review articles addressing recent advances in fundamental science, engineering, and practical applications of electronic materials. The interdisciplinary topics of the journal include materials science, device engineering, and the physics of electronic and magnetic properties. *Electronic Materials* also welcomes Special Issue proposals from academics and industrial researchers from all related fields. We encourage scientists and engineers worldwide to publish their innovative ideas and cutting-edge developments and technologies in the field of electronic materials.
The journal is now open for submission and the Editorial Team welcomes your manuscripts for publication.

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