## **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).

### Guest Editors

### Dr. Marina Tyunina

1. Microelectronics Research Unit, Faculty of Information Technology and Electrical Engineering, University of Oulu, P.O. Box 4500, FI-90014 Oulu, Finland

2. Institute of Physics of the Czech Academy of Sciences, Na Slovance 2, 18221 Prague, Czech Republic

### Prof. Dr. Lucian Pintilie

National Institute of Materials Physics, Atomistilor 405A, 077125 Magurele, Romania

### Deadline for manuscript submissions

closed (31 July 2022)



# Electronic Materials

an Open Access Journal by MDPI

### CiteScore 3.9



mdpi.com/si/64772

*Electronic Materials* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 electronicmat@mdpi.com

mdpi.com/journal/ electronicmat





## Electronic Materials

an Open Access Journal by MDPI

### CiteScore 3.9





### About the Journal

### Message from the Editor-in-Chief

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.

### Editor-in-Chief

Prof. Dr. Wojciech Pisula

1. Max Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz, Germany

2. Department of Molecular Physics, Faculty of Chemistry, Lodz University of Technology, Zeromskiego 116, 90-924 Lodz, Poland

### **Author Benefits**

#### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, Ei Compendex, and other databases.

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 26.6 days after submission; acceptance to publication is undertaken in 5.2 days (median values for papers published in this journal in the first half of 2025).