



## Synthesis, Characterization, and Applications of Ferroelectric Films

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Deadline for manuscript submissions:

**closed (20 April 2022)**

### Message from the Guest Editors

Dear Colleagues,

This year, we commemorate 100 years since the discovery of ferroelectric materials and observation of their unusual properties by J. Valasek in Rochelle salt. Ferroelectric have been discovered in a variety of materials, but they have become particularly useful in the form of thin and thick films. To celebrate the 100th anniversary of the discovery of ferroelectricity, this Special Issue will provide a deep overview and the most recent advances in various topics related to ferroelectric films and their many applications. We look for papers presenting the latest developments and most cutting-edge studies in this area. The following is a list of some of the topics proposed for this Special Issue:

- Fundamentals of ferroelectric films;
- Advanced processing of ferroelectric films;
- Nanoscale characterization of ferroelectrics;
- Energy harvesting applications;
- Sensors and actuators, MEMS;
- Domain and domain wall engineering;
- Solid-state refrigeration;
- Ferroelectric memories;
- Topological ferroelectricity;
- Multiferroics;
- Machine learning for ferroelectrics research.

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## Message from the Editor-in-Chief

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