Special Issue

Synthesis and Applications of Ferroelectric Thin Films

Message from the Guest Editor

Recently, several promising developments in the use of ferroelectric thin films in new applications have been reported, covering different areas such as energy harvesting and storage, photocatalysis, photovoltaics, tunnel junctions, and memristors, among others. Therefore, interest in ferroelectric thin films is continuously on the rise, both from fundamental science and application-oriented research perspectives. However, discovering new ferroelectric materials and improving the performance of existing ferroelectric thin films in device applications remains crucial in the development of new functional materials, while finding innovative syntheses and improving existing ones, towards finding new technological solutions that impact the cost-efficiency relationship. To celebrate the 100th anniversary of the discovery of ferroelectricity, this Special Issue will provide a comprehensive overview and the most recent advances in topics related to the synthesis and applications of ferroelectric thin films.

Guest Editor

Dr. Jose P. B. Silva

Centre of Physics of University of Minho and Porto (CF-UM-UP), Campus de Gualtar, 4710-057 Braga, Portugal

Deadline for manuscript submissions

closed (10 December 2022)



an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/53046

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

mdpi.com/journal/materials





an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 6.4 Indexed in PubMed





About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
 Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)