

Special Issue

Dielectric Materials for Energy Storage, Energy Harvesting and Electrocaloric Applications

Message from the Guest Editors

We are pleased to announce the launch of a Special Issue on "Dielectric Materials for Energy Storage, Energy Harvesting and Electrocaloric Applications" in *Coatings*. This Special Issue aims to highlight the latest research and advancements in the field of dielectric materials, with a specific focus on their applications in energy storage, energy harvesting and electrocaloric applications. We invite researchers and experts to contribute their original research articles or reviews to this Special Issue. Topics of interest include, but are not limited to:

- Novel dielectric materials for energy storage and capacitors;
- Advances in thin film deposition techniques for dielectric materials;
- Electrocaloric effect in dielectric materials for solid-state cooling;
- Dielectric polymers for energy harvesting applications;
- Nanogenerators based on dielectric materials for self-powered systems;
- Characterization techniques for dielectric materials in energy applications.

We look forward to receiving your valuable contributions and making this Special Issue a significant resource for the scientific community.

Guest Editors

Dr. Indrani Coondoo

Department of Materials and Ceramic Engineering, CICECO, Aveiro
Institute of Materials, University of Aveiro, 3810-193 Aveiro, Portugal

Dr. Igor Bdikin

Centre for Mechanical Technology Automation (TEMA), Mechanical
Engineering Department and Aveiro Institute of Nanotechnology (AIN),
University of Aveiro, 3810-193 Aveiro, Portugal

Deadline for manuscript submissions

closed (31 August 2024)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/178576

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

[mdpi.com/journal/
coatings](https://mdpi.com/journal/coatings)





Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



[mdpi.com/journal/
coatings](https://mdpi.com/journal/coatings)



About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)