# Special Issue

# Dielectric Coatings of Functional Nanomaterials

### Message from the Guest Editors

In this Special Issue, we invite original research articles and comprehensive reviews that advance the understanding and application of dielectric coatings for nanomaterials. By bringing together cutting-edge research, this Special Issue aims to inspire innovative solutions to current challenges and promote interdisciplinary collaborations in the field of nanomaterials and coatings.

- dielectric coatings
- functional nanomaterials
- surface passivation
- energy storage systems
- microelectronics
- low dielectric loss
- three-dimensional printing
- nanostructured materials
- high breakdown strength
- coating deposition techniques

We look forward to receiving your contributions.

### Guest Editors

Prof. Dr. Padmaja Guggilla

Department of Physics, Chemistry, and Mathematics, College of Engineering, Technology and Physical Sciences, Alabama A&M University, Normal, AL 35762, USA

Dr. Clyde Varner

Department of Physics, Chemistry, and Mathematics, College of Engineering, Technology and Physical Sciences, Alabama A&M University, Normal, AL 35762, USA

### Deadline for manuscript submissions

19 September 2025

**Nanomaterials**

**an Open Access Journal by MDPI**

**Impact Factor 4.3**
**CiteScore 9.2**
**Indexed in PubMed**

mdpi.com/si/229655

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

mdpi.com/journal/nanomaterials

# Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

MDPI

# About the Journal

## Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

## Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

## 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, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:**

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering )