

Special Issue

Anticorrosive Nanomaterials and Nanostructured Coatings

Message from the Guest Editor

Corrosion is a significant challenge faced by industries across various sectors, and the development of effective anticorrosive coatings is of paramount importance. In this Special Issue, we will delve into the innovative approaches and novel materials that are being explored to combat corrosion. The focus will be on nanomaterials and nanostructured coatings, which offer unique advantages such as enhanced barrier properties, tailored surface interactions, and multifunctionality. Potential topics include, but are not limited to, the following:

- Two-dimensional (2D) nanomaterials for corrosion protection;
- Nanocomposite coatings with enhanced barrier properties;
- Bioinspired coatings;
- Surface engineering for enhanced corrosion resistance;
- Scale-up and commercialization of nanocoatings.

Guest Editor

Dr. Shu Xiao

School of Mechanical & Automotive Engineering, South China University of Technology, Guangzhou 510641, China

Deadline for manuscript submissions

closed (31 March 2025)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 10.3
Indexed in PubMed



mdpi.com/si/182888

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

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





Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 10.3
Indexed in PubMed



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



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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

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