

Special Issue

Development of Nanocomposite Coatings

Message from the Guest Editor

Increasing demands for durability and reliability of elements, components, and interacting systems which operate in challenging conditions. In recent years, surface engineering, including surface modifications and coatings, has made significant contributions to enhancing service life of components and systems.

Nanoscale developments have allowed scientists to investigate nanocomposites to engineer surfaces applied in severe operational conditions. Although nano or nanocomposite coating is a relatively new area in terms of industrial applications, there are major benefits to be realised. Research into nanocoatings has been advanced in recent years mainly due to their robust, reliable, and cost-effective attributes. Control and optimisation of properties at the nanoscale has enabled researchers to achieve the best possible solutions.

This Special Issue welcomes the submission of original research papers and comprehensive reviews that report new research findings in terms of nano and nanocomposite coating development applied in, but not limited to, tribology, corrosion, cavitation, fluid flow, and heat transfer.

Prof. Zulfiqar A Khan

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/47382

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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

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