Special Issue

Futuristic Nanocomposite Coatings

Message from the Guest Editor

Novel and cutting-edge designs and engineering solutions are required to meet the increasing demand for technologically advanced products. Lately, nanocomposite coatings have made significant contributions in terms of enhancing the durability, reliability and service life of components and the energy efficiency of interacting systems. Nanocomposite coatings are relatively new within the context of industrial applications; therefore, their major benefits are yet to be fully realised. The design of nanocomposite coatings has progressed in recent years following the development of more robust, reliable, and cost-effective characteristics. The control and optimisation of properties at the nanoscale enables researchers to deliver the best possible solutions.

This Special Issue welcomes the submission of original research papers, short communications and in-depth reviews that present novel research findings on nanocomposite coatings applied in, but not limited to, the following: tribology, tribocorrosion, thermofluids and low-to-zero-emission energy generation, conversion and storage.

Guest Editor

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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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