



Trends and Prospects in Nanoscale Thin Films and Coatings

Guest Editor:

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Message from the Guest Editor

It is a great pleasure to invite you to contribute your original research to this Special Issue on “Trends and Prospects in Nanoscale Thin Films and Coatings” focused on the preparation, characterization, properties, and applications of nanoscale thin films and coatings. In recent years, nanoscale thin films and coatings have found extensive application across many fields due to their unique optical, electrical, thermal, and mechanical properties, which substantially differ from bulk properties.

This Special Issue aims to share recent achievements and new challenges in the field of nanomaterial science, engineering and nanotechnology, paying particular attention to the relationship between advanced fabrication, properties, applications, and physical-chemical characteristics. We welcome studies relating to experimental, theoretical, computational, or other applications of nanomaterials ranging from hard (inorganic) materials, through soft (polymeric and biological) materials, to hybrid materials or nanocomposites, including novel preparation and assembly methodologies, and industrially scalable techniques.





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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.

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