Special Issue

Preparation and Characterization of Coatings with Special Properties

Message from the Guest Editor

The coatings play important roles in the development of industry and society. Key issues for coating systems concern nucleation, growth, and the adhesion of the coating to substrates and, concomitantly, implementing deposition procedure strategies that enable the multifunctionality of the coating, i.e., by tailoring the topography (roughness) and electrical conductivity. Facile and economically viable coating deposition processes combined with excellent adhesion, resistance, and multifunctionality will improve current industrial processes and enable novel applications in the future. This Special Issue aims to address the latest trends in advanced coatings. The coating technology and excellent properties are highlighted with a focus on applications in various fields, topics of interest include but are not limited to the following: Thin metal oxide and metal chalcogenide films, layers, nanoparticles, nanotubes, nanostructures, and stacks;
Barrier or buffer metal oxide coatings;
Light harvesting metal chalcogenide and oxide coatings.
See more information in:
https://www.mdpi.com/si/159770

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

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