Special Issue

Preparation, Properties and Applications of Nanostructured Thin Films

Message from the Guest Editor

Nanostructured thin films represent a rapidly advancing field. This Special Issue aims to gather high-quality research and review articles that highlight recent advances in the preparation, properties, and applications of nanostructured thin films. We welcome contributions focusing on innovative synthesis methods (e.g., chemical vapor deposition, atomic layer deposition, sol–gel, sputtering, and self-assembly), advanced characterization techniques, theoretical modeling, and performance evaluation in real-world applications. Topics of interest include, but are not limited to, functional coatings, flexible electronics, optoelectronic devices, energy storage and conversion systems, sensors, and biomedical interfaces. We are soliciting original research articles, communications, and comprehensive reviews that present cutting-edge findings, novel methodologies, or critical perspectives on the future direction of this exciting field.

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

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