



Nanostructured Thin Films: From Synthesis to Application

Guest Editors:

Dr. Jiangfeng Gong

College of Science, Hohai
University, Nanjing, China

Prof. Dr. Min Han

School of Chemistry and
Materials Science, Nanjing
Normal University, Nanjing,
China

Prof. Dr. Chunmei Tang

College of Science, Hohai
University, Nanjing, China

Deadline for manuscript
submissions:

closed (15 October 2023)

Message from the Guest Editors

Dear Colleagues,

Thin film technology is a mature field, encompassing a wide range of applications such as electronics, optical communications, and biosystems. The list of potential applications is practically endless, with an impact in nearly every industrial sector. Many thin film applications are linked to developments in the semiconductor industry, such as thin-film transistors, large-area displays, microelectromechanical/nanoelectromechanical systems, electrochemical energy storage and conversion, planar waveguides, and magnetic data storage.

The present Special Issue of *Nanomaterials* provides novel insights into nanostructured thin films. It aims to highlight the state of knowledge in the synthesis, characterization, and potential applications of thin films for advanced manufacturing. We invite contributions from leading groups in the field with the aim of providing a balanced view of the current state-of-the-art in this discipline.





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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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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Nanomaterials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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