



Optical and Electrical Properties of Nanostructured Thin Films

Guest Editor:

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Message from the Guest Editor

This Special Issue focuses on advances in the development of nanostructured thin films with specific optical and electrical properties. These include many possible research areas including new understandings of their fundamental properties, advanced methods of producing such materials, methods of achieving certain effects, as well as the different applications of such materials based on these properties. Authors are cordially invited to contribute original research articles and review articles to this Special Issue. Potential topics, covering advances in the optical and electrical properties of nanostructured thin films, include, but are not limited to the following:

1. Advanced production methods of nanostructured thin films;
2. Semiconductor-based nanostructured thin films;
3. Nanostructured thin films with metallic nanoparticles;
4. Quantum confinement in nanostructured thin films;
5. Plasmonic resonances in nanostructured thin films;
6. Multiple exciton generation in nanostructured thin films;
7. Specific properties of nanostructured thin films and their control;
8. Applications of nanostructured thin films;
9. Modeling of the optical and electrical properties of nanostructured thin films.





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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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