

Special Issue

ALD Technique for Functional Coatings of Nanostructured Materials, Volume II

Message from the Guest Editors

The conformability and thickness control of thin layers achieved using the atomic layer deposition (ALD) technique have driven the development of new material structures as well as novel devices that are more efficient in many research fields. The current research trends continue to focus on the development of novel materials and their growth mechanisms, as well as the design of new precursors and deposition approaches. Moreover, the implementation of such techniques in combination with existing technologies will give rise to new downsized devices with better performance. In addition, the ALD process is required in many research areas, such as the surface protection of nanostructures, allowing their manipulation and characterization to advance fundamental research and quantum phenomena investigations. This Special Issue is focused on, but not confined to:

- The development of new precursors and deposition approaches to increase the state of the art of ALD materials.
- Implementation of ALD in combination with other fabrication routes to yield new nanostructured materials.
- Fabrication of advance devices using the ALD technique to improve their performance.

Guest Editors

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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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