



Design of Nanostructured Materials by Atomic Layer Deposition and Its Applications

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Message from the Guest Editors

ALD is a thin film deposition technique allowing for sub-nanometer thickness control, as well as excellent uniformity and conformality on demanding substrates. Although ALD is typically used for the synthesis of oxides nanomaterials, it has been shown that nitrides and metals can also be prepared using this technique.

This Special Issue will aim at gathering resources in the area of the design of nanostructured materials using ALD for different applications such as health, environment and renewable energy. Contributions related to advanced materials design, novel materials properties and original characterization techniques will be as well considered.

This Special Issue will deal with: (i) the design of nanostructured materials with controlled morphology, geometry and crystallinity, (ii) the tuning of interfaces for the obtained materials, (iii) the study of the dependence of the physical-chemical properties on the geometric parameter, and (iv) the investigation of new applications.





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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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