

Special Issue

Current Updates on Optoelectronic Nanostructures for Sensors and Actuators

Message from the Guest Editors

We are pleased to invite you to contribute to this Special Issue, entitled 'Current Updates on Optoelectronic Nanostructured Materials for Sensors and Actuators, with original research articles and comprehensive review articles. The scope of this Special Issue includes, but is not limited to, the following topics:

- The development of nanostructured films for sensor applications in healthcare and environmental monitoring.
- Advanced deposition techniques for nanostructured films, including atomic layer deposition, chemical vapor deposition, physical vapor deposition, electrophoretic deposition and sol-gel.
- The optical and electronic properties of nanostructured films for photonic and optoelectronic devices.
- The integration of nanostructured thin films in flexible electronics.
- Nanostructured functionalized films for enhanced catalysis and chemical reactions.
- Biocompatible and antimicrobial films for medical devices.
- The theoretical modeling and simulation of nanostructured thin film growth and properties.
- Scalability and sustainability challenges in the industrial production of functionalized nanostructured thin films.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2026)



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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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