

Special Issue

Thin Films and Nanostructures: Material Properties, Processing, and Applications

Message from the Guest Editors

Low dimensional materials fostering novel chemical and physical properties arise interest in innovative applications for a wide variety of fields including energy, sensing, photocatalysis, optics, electronics, optoelectronics, spintronics, and so on. Several materials can be processed as thin films or nanostructures depending on their final application with a plethora of synthesis approaches, from top-down to bottom-up techniques by means of a variety of physical or chemical methods, such as magnetron sputtering, molecular beam epitaxy (MBE), chemical vapor deposition (CVD), pulsed laser deposition (PLD), atomic layer deposition (ALD), spray coating, etc. This Special Issue aims at covering several aspects of thin film technology, including synthesis, characterization, and intended use including device integration. Examples of materials include (but are not limited to):

- Organic polymers
- Inorganic semiconductors
- Metal/metal oxide nanoparticles
- C-based materials
- Self-assembled monolayers
- Soft matter and biomaterials

Moreover, topics include several applications such as:

- (Bio)sensors
- Optics, photonics, plasmonics
- Photovoltaics
- Catalysis
- Electronics
- Energy

Guest Editors

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Deadline for manuscript submissions

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