

Special Issue

Atomic Layer Deposition: From Thin Films to Nanostructured Materials

Message from the Guest Editor

Atomic layer deposition (ALD) is an ultrathin film deposition method. This technique allows the deposition of various materials (oxides, nitrides, metals, etc.) with a thickness control at the nanometric scale, as well as excellent uniformity and conformality. The aim of this Special Issue is to assemble high-quality contributions on the deposition of thin films as well as the synthesis and modification of nanostructures using ALD. It will deal with the design of new thin films and nanostructures by tuning their morphology, geometry, crystallinity, and interfaces. The relation between these parameters and the physical–chemical properties will also be investigated. New applications in different fields, such as health, the environment, renewable energy, microelectronics, etc., will be also explored. Relevant contributions related to prospective materials' design, original materials' properties, and innovative characterization techniques will also be considered.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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