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Metal Oxide Thin Films: Synthesis, Characterization and Applications

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Message from the Guest Editors

Dear colleagues,

The last two decades have seen an intensive improvement in thin film deposition methods, enabling the precise coating of surfaces at the nanoscale. Today, it is possible to coat surfaces with complex compositions and synthesize multilayers. The deposition of complex structures allows for the development of new technologies, with recent advances in deposition techniques further miniaturizing electronic devices. The development of these new technologies towards scaling down the size of the produced devices requires accurate control of the deposition process. The latter then allows tailoring thin films and nanodevices to one's desires.

This Special Issue will compile recent developments in the field of metal oxide thin film deposition. The articles presented in this Special Issue will cover various topics, ranging from but not limited to the optimization of deposition methods, thin film preparations, the functionalization of surfaces with targeted applications, nanosensors, catalysis, electronic devices, biocidal coating, and the synthesis of nanostructures via the accurate control of thin film deposition methods, among others.



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Special Issue



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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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