



Current Research in Thin-Film Deposition: From Principles and Technologies to Film Properties and Applications

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Message from the Guest Editors

Dear Colleagues,

Thin films represent a mature, well-established field that bridges an almost unlimited range of potential applications, including functional coatings, optoelectronics, sensing, energy harvesting and storage, and heterogeneous catalysis. This variety is thanks to the unique properties of these films, which may substantially deviate from their bulk counterparts due to the small thickness, higher surface-to-volume ratio, strong interface interactions with other compounds in multiple device architectures, and internal microstructure.

Many of the abovementioned factors depend highly on the deposition technique; for example, the same compound can present rather distinct properties depending on its density, compactness, morphology, crystallinity, microstructure, or doping, all easily tunable by setting specific growth conditions for multiple physical or chemical deposition methods.





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