

nanomaterials



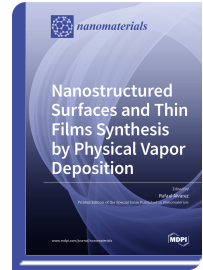
Special Issue Reprint

Nanostructured Surfaces and Thin Films Synthesis by Physical Vapor Deposition

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Edited by
Rafael Alvarez

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This Special Issue deals with the synthesis of nanostructured surfaces and thin films by means of physical vapor deposition techniques such as pulsed laser deposition, magnetron sputtering, HiPIMS, or e-beam evaporation, among others. The nanostructuring of the surface modifies the way a material interacts with the environment, changing its optical, mechanical, electrical, tribological, or chemical properties. This can be applied in the development of photovoltaic cells, tribological coatings, optofluidic sensors, or biotechnology to name a few. This issue includes research presenting novel or improved applications of nanostructured thin films, such as photovoltaic solar cells, thin-film transistors, antibacterial coatings or chemical and biological sensors, while also studying the nanostructuring mechanisms, from a fundamental point of view, that produce rods, columns, helixes or hexagonal grids at the nanoscale.



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