



Physical Vapor Deposition

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Message from the Guest Editor

Dear Colleagues,

Physical vapor deposition (PVD) is a vacuum deposition method of producing thin films and coatings. In a PVD process, the source material is changed from the solid phase to the vapor phase and then is deposited on a substrate surface, by returning to a condensed phase. The most common PVD processes are evaporation and sputtering with the assistance of various of techniques. PVD technology is applied in applications that require thin films or coatings for mechanical, physical, chemical, optical, and electronic functions. PVD technology is developing with advances in theory and technique, and providing extensive opportunities for advanced thin films and coatings in an expanding area of applications. This Special Issue of *Coatings* on "Physics Vapor Deposition" is open to all original research and critical reviews on the latest advances on all aspects of PVD.

In particular, the topics of interest include, but are not limited to:

- PVD physics and modeling
- PVD processes, techniques, and equipment
- PVD coating characterization
- PVD coating properties, behaviors, and performances
- PVD coating applications





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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