

Physical Vapor Deposition

Guest Editor:

Dr. Klaus Pagh Almtoft

Tribology Centre, Danish
Technological Institute,
Kongsvang Allé 29, DK-8000
Aarhus C, Denmark

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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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ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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Coatings Editorial Office
MDPI, St. Alban-Anlage 66
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