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PVD Coatings: Synthesis, Materials and Properties

Guest Editor:

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Deadline for manuscript submissions:
closed (20 December 2021)

Message from the Guest Editor

Dear Colleagues,

Physical vapor deposition techniques play a key role in today's ever-accelerating world. First, they are very effective for preparing brand new nanostructured thin film materials with unique physical properties. Second, unlike many other thin film preparation methods, they can be easily scaled up. Last, but not least, they are environmentally friendly technologies. For the reasons mentioned above, they are widely used in the automotive industry, in electronics, for the production of renewable energy sources, for energy saving, and in the glass industry and many others.

This Special Issue of *Materials* aims to present the latest contributions focusing on various aspects of PVD coating, such as research into new thin film materials or their applications. Contributions explaining the phenomena related to the preparation of thin film materials using PVD techniques (discharge plasma modeling and/or diagnostics, atomic-scale computer simulations of materials, etc.) are also welcome. We believe that this collection can help to share new inspirational ideas across the PVD community.

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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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