

Chemical/Physical Vapor Deposition Coatings on Metallic Substrates

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Message from the Guest Editors

Dear Colleagues,

Recent developments in high-performance coatings fabricated on metallic substrates by chemical vapor deposition (CVD) and physical vapor deposition (PVD) technologies have had a significant impact on the field of surface engineering for a wide range of applications including aerospace, automotive, chemical processing, and medical devices. While traditional CVD and PVD coatings are primarily to provide substrate protection against wear, corrosion, and oxidation, today's CVD and PVD coatings can offer advanced functionalities.

Research topics may include but are not limited to the following:

- Novel CVD and PVD processes;
- Novel hybrid deposition processes involving CVD/PVD;
- Design and CVD/PVD fabrication;
- Theory and experimentation on film formation, interfacial adhesion, surface preparation, etc;
- Advanced characterization and testing techniques;
- Computer modeling to predict coating properties, performance, and durability in simulated service environments.

We look forward to receiving your contributions.



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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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