

Special Issue

Chemical/Physical Vapor Deposition Coatings on Metallic Substrates

Message from the Guest Editors

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.

Guest Editors

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About the Journal

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.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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