Special Issue

Recent Developments in Chemical and Physical Vapor Deposition

Message from the Guest Editors

As the demands on various machine parts, equipment components or tools continue to increase, it becomes necessary to enhance their durability and reliability. In order to meet these requirements, new materials are being developed, and modifications are being made to the properties of the materials previously used in such a capacity materials through plastic, heat or thermo-chemical processing. There have also been significant advances in surface engineering through the development of coating manufacturing technologies using chemical vapour deposition (CVD) and physical vapour deposition (PVD) methods. The use of PVD and CVD techniques allows the production of single-layer or single-phase, multi-component coatings with a multi-layer, gradient or nanostructured structure. Coatings produced using CVD and PVD techniques are widely used, among others, in optical and electronic systems, to increase wear and corrosion resistance, as thermal barriers, decorative coatings, etc. We look forward to your contribution.

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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