Special Issue

Preparation and Properties of Hard Coatings / Thin Films

Message from the Guest Editors

As scientists, we have enormous potential that should be applied. By creating new materials, we can predict their properties, and modify and adapt them to dedicated purposes. One problem that many scientists currently face is the application of thin films in fields such as electronics, photovoltaics, and light converters. The journal will contain the results of the use of thin and hard coatings. This Special Issue solicits contributions related to the latest experimental and theoretical developments in the growth design and applications of hard coatings. Hard coatings based on nitrides, oxides, oxynitrides, borides, and carbides are now routinely synthesized by vapor deposition techniques to improve the performance of tools, machine parts, or devices in terms of mechanical strength, wear, and resistance to harsh environments (oxidation, corrosive, high temperature and pressure, etc.). The aim of this Special Issue on “Preparation and Properties of Hard Coatings and Thin Films” is to provide an update on the current state of research and developments in the field of hard coatings by presenting a collection of experimental and theoretical works.

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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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