

Special Issue

Photonic and Electronic Multilayer Thin Films: Growth, Properties, and Applications

Message from the Guest Editors

The advance of electronic industries relies heavily on the development of thin film growth and characterization techniques. Recent theoretical and experimental developments in solar cell thin film coatings and light emitting diodes (LED) as multilayers on oxide substrates and covering transparent conducting layers are among the most highly exploited research systems in the field. Nanoscale multilayer devices have become fashionable in the scientific community, and as the thin film has become thinner, the interface properties, such as band bending and the interdiffusion of atoms, have increased in importance. This scope of this Special Issue will serve as a forum for papers including the manufacture, design, and characterization of high-performance thin film materials. Correlations among the growth methods, physical properties, and characterization techniques are to be explored. The goal is to shed light on these correlations through an understanding of electronic and atomic structures and also the morphology of the ultra thin films, especially the interfaces between thin films.

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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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