Special Issue

Coatings and Thin Film for Chemical Vapor Deposition (CVD) Application

Message from the Guest Editors

Chemical vapor deposition (CVD) is a necessary and multipurpose tool for the development of innovative materials and structures that are the focus of modern nanotechnology. The actual progress of CVD is explained by the ability to fabricate both simple (metals and non-metal-containing) thin films and multicomponent new hybrid structures, intermetallic oxides layers, etc. for nanoelectronics, power electronics, medicine, space industries, ecology, and so on. The scope of this Special Issue will include papers in the following directions:

Recent developments in chemistry and design of CVD precursors;
Precursor thermochemistry and advanced surface chemistries for film deposition;
New directions in the evolution of the CVD technology;
Composite hybrid and multicomponent materials fabricated by different CVD processes;
New ideas in mechanisms and CVD growth processes: theoretical and experimental approaches;
Diagnostic and control of coating properties, structure, composition;
Application of thin films and coatings in modern industries.

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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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