



Modeling of Phase Separation and Encapsulation Processes in Growing Films

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Message from the Guest Editor

Dear Colleagues,

The aim of this Special Issue is the theory, modeling and computer simulations phase separation and encapsulation processes in growing compound thin films taking place during deposition by various methods such as physical and chemical vapor deposition, magnetron sputtering, ion beam assisted deposition, electron beam evaporation and many other methods. Other treatments of compound materials leading to phase separations and encapsulations processes also are in the field of interest. The compound thin film morphology, phase crystalline structure and other structural properties are determined by applied deposition method and it is very important to understand the mechanisms and dynamics of elementary processes taking place during film deposition. The deep understanding of elementary processes, their dynamics and mechanisms at different deposition methods allows controlling various physical, chemical and structural properties of films.





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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.

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