

Special Issue

Thin Film Dynamics: Theory and Computer Simulations

Message from the Guest Editor

The aim of this Special Issue is the theory, modeling, and computer simulations of thin film growth processes during deposition by various methods such as physical and chemical vapor deposition, magnetron sputtering, ion-beam-assisted deposition, and many other methods. Thin film morphology, structure, and other properties are determined by the applied deposition method, and it is very important is to understand the mechanisms and dynamics of elementary processes that take place during film deposition. We warmly invite researchers to submit their contributions, both original research articles and review papers, to this Special Issue that are related to theory, mathematical modeling, and computer simulations analyzing the kinetics and mechanisms of elementary processes taking place during the deposition of compounds and multicomponent thin films. Topics of interest include but are not limited to the following: Adsorption; Coalescence; Compound films; Surface diffusion; Kinetic modeling; Surface roughness; Phase separation; Multilayers; Film morphology.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2023)



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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.

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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