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

Prof. Dr. Arvaidas Galdikas
Department of Physics, Kaunas University of Technology, Kaunas, Lithuania

Deadline for manuscript submissions

closed (31 December 2023)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/38203

Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

mdpi.com/journal/coatings

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/journal/coatings

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.

Editors-in-Chief

Prof. Dr. Wei Pan
State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy
NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)

MDPI