

Special Issue

Synthesis, Properties and Application of Thin Films, Nanofilms and Nanocrystals

Message from the Guest Editor

Now, due to the intensification of the study of the nanoscale state of matter, a detailed study of films of the nanoscale thickness range and nanocrystals, including those with core-shell structures, is required. Nanoscale films are an integral element of nanoscale heterostructures for various purposes, based on which hybrid integrated electronics devices and optoelectronic devices (light-emitting diodes, photodiodes, lasers) are manufactured.

The scope of this Special Issue will serve as a forum for papers in the following concepts:

- New methods for the synthesis of functional films of the nanometer range of thickness and corresponding heterostructures;

- Synthesis, properties and application of functional nanocrystals, including those with a core-shell structure;

- Physical and chemical methods of activation of the processes of formation of nanoobjects;

- Creation of models for the formation of functional nanomaterials, including computer modeling for the optimization of the synthesis processes and prediction of the properties of nanomaterials.

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2024)



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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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