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Functional Granular Films and Coatings: Synthesis, Properties and Applications

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Message from the Guest Editors

Functional films and coatings can modify the surface of a material or device and impart unique and sometimes unexpected properties to it. Because of this, they attract great interest both in terms of basic research there and for practical applications in a variety of fields, such as biology, energy, the environment, etc. With the development of science and engineering, it becomes necessary to improve the functional properties of existing materials, as well as to develop new unique materials with specified characteristics. The functional properties of a material can be controlled by influencing the microstructure including granularity formed during the synthesis. It is known that a change in the size of grains can lead to a significant change in material properties and even the appearance of new anomalous phenomena. Comprehensive studies of the correlation between synthesis conditions, structure, and functional properties of granular films and coatings can be the impetus for the development of materials science and many areas of industry.

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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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