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Optical and Magnetic Properties of Thin Films

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Deadline for manuscript submissions:
closed (31 May 2024)

Message from the Guest Editor

Optical and magnetic properties of thin films have been actively researched for years, due to their unique properties differing from bulk materials. Being able to control their nanometer-scale thickness has made them a promising candidate for varied applications in optoelectronics and spintronics.

This special issue focuses on the recent advances in the research of the optical and magnetic properties of thin films. It covers various topics such as the synthesis, characterization, and manipulation of thin film properties, as well as their applications in devices such as sensors, data storage, and optical communication.

In particular, topics of interest include but are not limited to:

- organic-inorganic optical thin films;
- magneto-optical thin films with high verdet constant;
- variable optics in multilayered thin films;
- Nanocrystallization enhances magneto-optical properties in thin films;
- sol–gel deposition of rare-earth-doped thin films;
- magnetron sputtering versus pulsed laser deposition for multicomponent thin films;
- new giant magnetoresistant thin films;
- multilayer thin film properties design and modelling.

We look forward to receiving your contributions.

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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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