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Magnetic, Optical Properties of Thin Films

Guest Editor:

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editor

Dear Colleagues,

Thin films represent a new scientific domain. They comprise many types of layers, generally as coatings. The thickness of these layers is variable, ranging from several nanometers to few micrometers. A new category of films can be called the “very thin films”, which have thickness under 1000 Angstroms for organic polymeric films and under 10 Angstroms for inorganic films. Thin films not only improve the properties of substrates but introduce many new and interesting properties.

Potential topics in this summary:

Organic-inorganic optical thin films;
Magneto-optical thin films with high Verdet constant;
Variable optics in multilayered thin films;
The enhancement of magneto-optical properties induced by nano-crystallization 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.

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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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