

Special Issue

Current Research Progress Surrounding Magnetic Thin Films

Message from the Guest Editors

We would like to invite you to submit your latest research findings to this Special Issue "Current Research Progress Surrounding Magnetic Thin Films". Compared with the conventional bulk magnetic materials, magnetic thin films have various characteristics, such as size effect, shape and magnetic anisotropy control, interfacial effects, and high integration or multi-functional design. Magnetic thin films have been widely utilized as computer storage devices, magneto-optical modulators, optical isolators, magnetic sensors, electromagnetic composite devices, and spintronic devices, among other things, around the world for several decades. Recently, due to the requirement of micro-electro mechanical systems, high-performance magnetic thin/thick films have started to gain tremendous scientific interest. Therefore, studies on the thin-film growth of rare-earth materials or other permanent magnetic materials, as well as on their fundamental properties, such as high-throughput preparation and magnetocrystalline anisotropy, are very important for future applications. This Special Issue aims to present the latest experimental and theoretical developments in the field of magnetic thin films.

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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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