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Advances in Thin Film Magnetism

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Message from the Guest Editor

Magnetism in thin films is a fascinating field in which the restricted size, importance of the surface, and presence of a structurally and compositionally different substrate generate a rich variety of phenomena that no longer respect the thermodynamic limits established in bulk systems. The typical physical quantities, such as exchange interaction and magnetic anisotropy, are seriously changed by the confinement between surface and interface, and frustration and interaction with foreign orbitals. The possibility to go beyond frontiers by accurately controlling the size, interface quality, and composition, which was facilitated by the technological progress of film deposition, has led to an unprecedented development of new materials with outstanding magnetic properties. Moreover, new architectures as well as new materials (i.e., magnetic topologic insulators) opened the road for magnetization manipulation through electric field or charge current (spin transfer and spin orbit torque). New technological applications promptly emerged trying to satisfy the high demand for sensitive sensors, for ultrafast, nonvolatile, and scalable memories and logic application.







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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.

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