magnetism

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Magnetic Surfaces: Thin Films and Nanostructures

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Message from the Guest Editors

The magnetic state of atoms or ions is driven by their co-ordination and the magnetic interactions with the surroundings. The inevitable disturbance of translational symmetry on the surface of a solid and at interfaces is likely to show strong magnetic peculiarities. Due to this reason, surface magnetism is tightly connected with thin films, multilayers and nanoparticles. Surface magnetism has implications in several areas of condensed matter physics, materials science, and nanotechnology. The advancement in magnetic measurement technologies has further excelled the research on surface magnetism for fundamental understanding as well as technological aspects. Therefore, in this Special Issue, the aim is to highlight the latest developments in:

- Magnetic thin films and multilayers;
- Magnetic nanoparticles and nanostructures;
- Interface magnetism;
- Proximity effect;
- Magnetic domains;
- Modification of magnetic surfaces;
- Neutron and Synchrotron in magnetism.

In this Special Issue, we welcome original research articles as well review articles which cover the fascinating field of surface magnetism.