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Atomic-Scale Properties of Magnetic Surfaces, Interfaces, and Nanostructures

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Deadline for manuscript submissions:
closed (31 August 2021)

Message from the Guest Editors

Magnetic surfaces, interfaces, and nanostructures are key elements for a wide spectrum of technological applications. Consequently, extensive research activities have been performed to explore the physical properties of these systems, including both fundamental and practical aspects. A deep understanding of the physical mechanisms at the atomic scale, both from theoretical and experimental points of view, is a crucial step towards utilizing magnetic nanomaterials in devices with improved functionality and efficiency in order to realize commercially available products for future everyday life.

This Special Issue has the goal of collecting the latest original research contributions in the forms of short communications, articles, or comprehensive reviews on the atomic scale properties of magnetic surfaces, interfaces, and nanostructures. Our vision is to compile a high-impact Special Issue that will serve as an important reference for future research and development activities in this field. All considered papers should demonstrate clear links to atomic scale magnetic properties.

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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