



Advances in Magnetic Two Dimensional Materials

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Message from the Guest Editors

Dear Colleagues,

Two-dimensional (2D) van der Waals (vdW) layered materials have attracted extensive attention for their great potential applications in electronic, optoelectronic, and electrochemical areas since the discovery of graphene in 2004. Recently, a new research highlight has appeared in 2D materials: 2D vdW magnetic materials, which debunk the Mermin–Wagner theorem that isotropic 2D materials cannot show long-range magnetism due to thermal fluctuation. The existence of magnetic anisotropy induces the band gap of magnon in the dispersion relation of spin wave, separating. This band gap splits into the ground state and the excited state of the magnon, so that the magnon in the ground state can maintain the spin ordered state and exhibit the intrinsic long-range ordered magnetism.

This Special Issue aims to publish a collection of forefront research articles that will expose the latest achievements in the theoretical and experimental study of 2D magnetic materials. We are particularly interested in, and invite colleagues to submit, original research articles that will fit into one of the topics listed below.

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