



Emerging Two-Dimensional Semiconductors and Magnetic Materials for Next-Generation Spintronics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Two-dimensional (2D) semiconducting magnetic materials have garnered widespread attention in condensed matter research due to their unique properties and vast potential applications in areas such as low-power spintronics, sensors, data storage, quantum computing and optical communications. These materials have challenged fundamental concepts of magnetism by exhibiting unusual behavior at the single layer limit, including controllable magnetic phase transitions by external stimuli and spin-valley coupled excitonic physics, etc. Consequently, the field of 2D semiconducting magnets is expanding rapidly, offering an unprecedented opportunity for exploring fundamental concepts and developing the new spintronic technologies.

This Special Issue offers a premier interdisciplinary platform for novel and cutting-edge theoretical and experimental research on all aspects of 2D semiconducting magnets and their associated heterostructures and devices.

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Dr. Jun Zhou

Guest Editor





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Message from the Editor-in-Chief

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