



Superconductivity and Magnetism in Two-Dimensional and Layered Materials

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Message from the Guest Editor

Two-dimensional and layered materials are an emerging class of compounds that have attracted unprecedented attention from the scientific community in the last twenty years. Most of the research efforts have so far been devoted to the exploration of their unique electronic, optical, and optoelectronic properties, also in light of potential technological applications.

However, more exotic quantum phases have also been discovered in this class of materials, including superconductivity and various types of magnetic order. Given that several of these fascinating phenomena still elude a comprehensive understanding and that new two-dimensional and layered superconducting and/or magnetic compounds are continuously being discovered, the field is in need of novel experimental and theoretical investigations on a fundamental level. Additionally, a subset of these materials is close to attaining technological maturity, which will in turn pave the way for their usage in industry-grade applications with a foreseen impact in different fields ranging from energy storage, quantum computing and sensing, spintronics, and more.





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Message from the Editor-in-Chief

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