



2D Magnetic Molecular Materials

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Message from the Guest Editors

2D molecular materials are receiving growing interest owing to their huge possibilities of application in electronics, energy storage, catalysis, sensing, biomedicine, etc., and intriguing new physics appearing at the 2D limit, on interfaces and surfaces. The study of molecular magnetism in 2D materials based on transition metal (3d) and lanthanide (4f) ions is of particular interest. While most well-studied 2D materials are inorganic solids, like the very well-known graphene, recent advances in coordination chemistry have enabled the synthesis of 2D metal-organic frameworks (2D MOFs), which can be functionalized in a convenient way. Adequate exfoliation of these materials into nanosheets would allow the use these nano-objects in devices or heterostructures. Finally, a current challenge in the field is the development of multifunctional 2D molecular materials incorporating several properties such as, for instance, SMM behavior and luminescence. This Special Issue will cover recent progress in all these topics, and other novel trends in the field of 2D magnetic molecular magnetism.





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Message from the Editor-in-Chief

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