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# Advanced Spintronic and Electronic Nanomaterials

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Deadline for manuscript submissions:
**closed (20 May 2024)**

## Message from the Guest Editors

Over the past two decades, spintronics and electronics have developed very rapidly. The ferromagnetism in 2D immediately became of tremendous interest to researchers all over the world. Up to now, the studies on the 2D materials have been expanded and correlated with the investigations of both traditional materials and emerging materials including diluted magnetic semiconductors, wide band gap semiconductors, electrocatalysts/photocatalysts and magnetic skyrmions.

This Special Issue will present comprehensive research outlining progress on the studies and application of advanced spintronic and electronic materials. This includes the utilization of strain, light, gate, doping or phase engineering to mediate the related materials. We invite authors to contribute original research articles and review articles covering the current progress on these materials. Potential topics include, but are not limited to:

- 2D magnetic materials;
- 2D electronic materials;
- Magnetic skyrmion materials;
- Diluted magnetic semiconductors;
- Electrocatalytic/photocatalytic materials;
- Wide band gap materials.

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## Editor-in-Chief


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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.

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