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Novel Electronics Devices Integrated with 2D Quantum Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (30 April 2023)

Message from the Guest Editor

Two-dimensional quantum materials have emerged as strong competitors to build next-generation electronic and optoelectronic devices in multiple frontiers. Among many others, some exciting progresses are field-effect transistors with ultralow switching voltage and subnanometer channel length, electronic devices that are extremely sensitive to magnetic fields. Atomic structures and underlying novel physics are the key driving forces that push progress in the field. Meanwhile, the richness of the material system brings tremendous opportunity and potential to design even more novel electronic devices with 2D quantum materials. It is thus timely and of great interest to publish a Special Issue to communicate the cutting-edge research activities in this fast-evolving direction. Accordingly, this Special Issue seeks to showcase research papers, short communications, and review articles that focus on the development of novel electronic devices based on 2D quantum materials.

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Message from the Editor-in-Chief

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