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Advanced Functional Low-dimensional Materials and Their Applications

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Message from the Guest Editors

Dear Colleagues,

While graphene has drawn the attention of the materials science community, other two-dimensional (2D) materials have arisen as a new class of materials with unique properties at the monolayer thickness. Their electrical, electronic and optical properties are of significant importance for a variety of applications in optoelectronics. These materials have also opened new areas of application, such as serving as topological insulators, and will, therefore, be the focus of this Special Issue. Additionally, a few reviews dealing with related one-dimensional functional carbon, boron or silicon nanotubes/nanowires and their applications will also be considered to provide a wider perspective to the field of low-dimensional materials.



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Special Issue