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Synthesis and Structure Elucidation of Low-Dimensional Materials

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Deadline for manuscript submissions:
closed (10 February 2024)

Message from the Guest Editors

Low-dimensional materials have attracted a lot of attention due to their tailorable physical and chemical properties and a wide variety of structures.

With at least one dimension being significantly smaller than the other two, low-dimensional materials consist of zero-dimensional (0D) (nanoparticles, quantum dots), one-dimensional (1D) (nanotubes, nanowires), and two-dimensional (2D) (graphene, TMDC monolayers, nanowalls, nanosheets) materials. With the continuous development of nanotechnology, a broad range of synthesis techniques were demonstrated to synthesise low-dimensional materials, from mechanical exfoliation to solvent-based methods and chemical vapour transport reactions. As the crystal structure and the dimensionality depends heavily on the synthesis method, this Special Issue will focus on the synthesis of novel low-dimensional materials, as well as on the relationship between the synthesis method and the crystal structure.

We cordially invite you to contribute a paper to this Special Issue. Full papers, communications, and reviews are all welcome. Thank you very much in advance for your time and consideration.

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Message from the Editor-in-Chief

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