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2D Polymers and Composites: Preparation, Characterization and Application

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Message from the Guest Editors

2D materials, including graphene, transition metal dichalcogenides (TMDs), black phosphorene and MXene, have attracted tremendous attention owing to unique optical and electronic properties that arise from the sheet-like 2D structures. In addition, functionalization and hybridization of these 2D materials can tailor and modulate their behaviors and properties, expanding applications in multidisciplinary science and engineering. Polymers play an extremely crucial role in our modern life, from mundane to highly specialized, consisting of repeating units that are linked to neighbors. The recent emergence of 2D polymers arguably have the potential to conquer the limitations of existing 2D materials, such as limited crystal size (and biological incompatibility).



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