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Multifunctional Polymer Composites Based on 2D Graphene Related Materials

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Message from the Guest Editors

Ultra-thin two-dimensional nanomaterials represent an emerging class of nanomaterials that possess sheet-like structures with a lateral size up to a few micrometres and even larger, but the thickness is only a single or few atoms thick. In this context, the improvements in properties and/or the insertion of new properties, among others, when using these 2DMs favour the development of multifunctional polymeric materials. Interestingly, this is shown in a variety of composite materials in the capability to detect several environmental triggers, matter states and others, which allows the realisation of multi-sensing systems. Both multifunctional and multi-sensing materials based on 2D graphene-related materials will represent.

This Special Issue is dedicated to presenting novel approaches to the synthesis, processing, and characterisation of multifunctional polymer composites based on two-dimensional fillers including graphene, graphene oxide, reduced graphene oxide, hexagonal boron nitride (hBN), transition metal dichalcogenides (TMDs), Mxeni, graphitic carbon nitride (g-C3N4), layered metal oxides, and layered double hydroxides (LDHs), as well as the related hybrid structures.













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Message from the Editor-in-Chief

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