## Special Issue

## Multifunctional Polymer Composites Based on 2D Graphene Related Materials

## Message from the Guest Editors

Ultra-thin two-dimensional nanomaterials represent an emerging class of nanomaterials that possess sheetlike 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 twodimensional 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.

#### **Guest Editors**

Prof. Dr. Guilhermino Fechine

Dr. Ricardo J. E. Andrade

Dr. Marino Lavorgna

## Deadline for manuscript submissions

closed (31 July 2023)



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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

#### Editor-in-Chief

#### Prof. Dr. Alexander Böker

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