



## Functional Features of Advanced Polymer Based Nanocomposites

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### Message from the Guest Editors

Polymer-based hybrids/nanocomposite materials have attractive applications in various sectors because of their enhanced physicochemical properties. Recently, there has been emerging interest in the development of polymer-based nanocomposites in order to achieve desired properties in line with required applications. Polymeric nanocomposites with various nanomaterials such as metal nanoparticles, metal oxides, nano-clay, graphene, carbon nanotubes, etc., exhibit enhanced optoelectronic, magnetic, and mechanical properties due to their diverse interfacial properties. Hence, they are utilized as hybrid materials for significant applications in various fields.

This Special Issue will contemplate the functional features of fabrication and characterization of emergent polymeric nanocomposites in various applications in catalysis, as sensors, as fuel cells, in environmental remediation, as photodetectors, as membrane materials, in tissue/bone engineering, and as drug carriers. The objective is to share the current progressive tendencies of diverse polymeric nanocomposite materials and their standpoints for forthcoming generation.





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