



Special Issue on
**Surface Modification of Polymer Nanocomposite
Materials: Techniques, Characterization, and
Applications**

CALL FOR PAPERS

Polymer nanocomposites have caught attention in the academic and industrial fields due to their excellent properties that can be tailored according to the requirements. Metal, metal-oxide, and carbon-based nanomaterials have been widely used in the preparation of polymer nanocomposites. The surface modification of polymer nanocomposites plays a significant role on the mechanical and physical properties of polymer nanocomposites. While physical or chemical methods can be used for surface modification, it should be arranged on the topmost layer of the nanomaterial to vary the surface functionality and keep the bulk properties unchanged. The surface-modified nanocomposites have broad applications in many industrial sectors such as food packaging and medical fields.

A special issue of the International Journal of Polymer Science comprising original research papers and review articles on the techniques, characterization, and application of surface modification in polymer nanocomposites has the potential to make a significant contribution to the literature, both in appraising the current state of research and in providing a platform for the future development of this research field.

Potential topics include, but are not limited to:

- ▶ Advanced synthesis techniques to modify surface properties in nanocomposites
- ▶ Characterization of the modified surface of nanomaterials
- ▶ Functional and chemical changes, as well as mechanical behavior of the surfaces
- ▶ Potential applications of surface-modified polymer nanocomposites
- ▶ New technology development in characterization of compatibility between filler and polymer matrix

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