



Properties, Structure and Environmental Impact of Organic and Inorganic Polymer Composites

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Message from the Guest Editors

There are many applications of polymeric composites due to their durability, variety of functionalities, and properties. The properties of these composites are mostly based on the type and size of additive material in the polymer matrix. The mechanical, chemical, and physical properties of the composites are exclusively related to filler–matrix interaction. Therefore, some plasticizers, compatibilizers, and coupling agents might be needed in order to improve such filler–matrix interaction and enhance the desired properties. There are many different polymers and fillers with a variety of functional groups that can be used to prepare a tremendous number of different composites. For this purpose, natural fibers; conductive, inorganic, and organic nanoparticles; carbon nanotubes; graphite; clay; and graphene can be mentioned as the most common fillers used in composite preparation. The matrix of a composite can be either degradable or nondegradable organic or inorganic polymers. On the other hand, the environmental impact of plastics and composites is now one of the concerns that should be taken into account. Therefore, it contains life cycle assessment of composites.





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