



Carbon-Based Polymer Composites: Synthesis, Processing, Characterization and Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on the latest developments in carbon-based polymer composites, a rapidly evolving field at the intersection of materials science and engineering. We aim to cover a broad range of topics related to the synthesis, processing, and characterization of these composites, as well as their diverse applications. This Special Issue will bring together original research articles and reviews highlighting advances in carbon-based materials such as graphene, carbon nanotubes, and carbon fibers, and their integration into polymer matrices. We seek contributions that explore innovative methods for synthesizing these composites, novel processing techniques to enhance their properties, detailed characterization to understand their structure–property relationships, and their applications in various fields such as electronics, aerospace, automotives, and environmental technology.

This Special Issue aims to provide a platform for researchers, engineers, and scientists to share their findings, discuss challenges, and present future directions in the field of carbon-based polymer composites.

