



Surface Modifications for Advanced Polymer Composites

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Message from the Guest Editors

As you already know, fiber-reinforced polymers are intensively studied because of their light weight coupled with high specific strength and stiffness. Moreover, a wide variety of isotropic or anisotropic properties may be modified by changing the type, volume fraction, arrangement, and aspect ratio of the fibers and the chemical nature of the polymer. The applications span the fields of both industrial (particularly transportation) and civil engineering, together with biomedical devices.

One outstanding problem is interface tailoring strongly affecting the properties, particularly the mechanical ones (both strength and toughness). The present Special Issue will have a particular focus on the so many surface treatments, both physical and chemical, of the fibers that allow the tailoring of the interface and their influence on the composite properties.

The issue is open to all contributions where new surface modifications strategies and the influence of interface tailoring on polymer composite properties are studied with both the aim to deepen knowledge of processes and to find new applications. The objective is to highlight the progress in this outstanding research field.





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Message from the Editor-in-Chief

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