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Advances in Natural Fiber Composites and Their Interfacial Adhesion

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Message from the Guest Editors

In the last two decades, the growing environmental issues have triggered the replacement of synthetic fibrous materials with lignocellulosic fibers characterized by biodegradability, easv availability, environmental friendliness, and good specific mechanical properties. Despite these benefits, their poor compatibility with polymer matrices still represents a major limitation for their industrial exploitation. In fact, their peculiar hydrophilic properties and surface characteristics prevent them from achieving a proper interfacial adhesion to hydrophobic polymer matrices, which leads to composites with poor mechanical properties. This Special Issue is aimed at collecting advancements made in the field of natural fibers and composites, including fiber-polymer interfacial strength. The aim is to increase our knowledge about the interfaces in natural fiber-reinforced polymer composites. Fundamental studies on fiber sizing or treatments at different scales (single fiber bundles or laminates) are particularly desirable. Both original research papers and reviews are welcome.









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Message from the Editor-in-Chief

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