

Natural Fiber

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Nature has blessed the mankind with rich natural resources that fulfill the primary and secondary needs of the man. The nature not only provides us with nutritious fruit, leaves that have high medicinal values and resistance against diseases. All the parts of plant have a vital role in nature. Natural fibers are the precious materials that have received a great interest of the polymer and material scientist in search of alternate resources. Natural fibers have numerous applications in various fields. They can be used as reinforcing material for polymer-based matrices because of the environmental issues, attractive features (density, shape ratio, mechanical behavior) in addition to the utilization of renewable resource economically. Cellulose fibers reinforced polymer composites is a fast flourishing arena of research due to their distinguished mechanical, thermal and biodegradation properties. Composites based on cellulose fibers are increasingly regarded as an alternative to conventional composites. The properties of composites

depend not only on the properties of their individual constituents but also on their morphology and interfacial (matrix/filler) characteristics. This rapidly expanding field is generating many advanced and novel materials. This special issue will be interesting for researchers working in the field of natural fibers. The issue is dedicated to use of cellulose, graft copolymerization of natural fibers, evaluation and characterization of polymers, synthesis of bio-composites and their mechanical evaluation. The review on natural fiber and bio-polymers explores its advancement and use for better prospects and their use in plastics could improve their decomposition and bio-degradation.

I have high hopes that upcoming talents and scientist should realize the importance of Nature and Natural Resources, wisely use it and conserve it for the new generation. They should select the field of Polymer and Material Science as career and explore the magnificent gift of "God" existing on Earth in the form of "Nature and Natural fiber".

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