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Kenaf fiber (Hibiscus cannabinus L.) is a type of natural fiber offering many advantages and high potential as reinforcement in composite materials, especially polymer composites. Conventionally, synthetic fibers such as carbon, glass and aramid are commonly used in the production of polymer composites, but kenaf fibers have comparable specific properties and relatively low processing costs favoring their substitution for conventional synthetic fibers.

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Biofiber reinforcements in composite materials

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Ramie fiber can be used as reinforcement in composite materials for civil applications. Industrial aluminum sheets were sandwiched with ramie fiber/epoxy prepreg to make laminate composites. The tensile strength of the laminate composite was higher than that of the aluminum.

The use of ramie fibers as reinforcements in composites ...

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