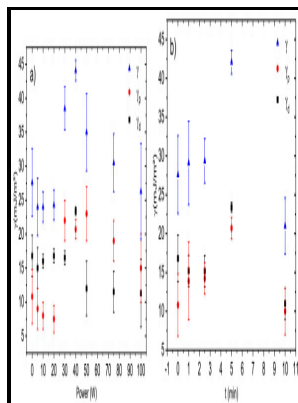


# Plasma modification of graphite fibers and its effects on composite properties

National Technical Information Service - Effect of surface modification on carbon fiber and its reinforced phenolic matrix composite



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## Cellulose defibrillation and functionalization by plasma in liquid treatment

In this research, epoxy-based hybrid composites were produced using the hand lay-up method and their flexural and high velocity impact were tested.

## Ultrasonic exfoliation of carbon fiber: electroanalytical perspectives

The oxidation process, as indicated in Fig.

## Cellulose defibrillation and functionalization by plasma in liquid treatment

Kim NH, Mishra AK, Lee JH et al 2012 Chemical functionalization of graphene and its applications.

## Ultrasonic exfoliation of carbon fiber: electroanalytical perspectives

It can be seen from figure that the plasma treatment time can seriously affect the wettability of the carbon fiber. A significant finding is that the proportion of carboxylic acid groups is not particularly significant and this could have ramifications for subsequent modification steps—particularly those seeking to covalently bind catalytic species to the fiber. Cyclic voltammograms detailing the response of carbon fiber electrodes to a ferrocyanide 2 mM, 0.

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Ballistic Performance of Ramie Fabric Reinforcing Graphene Oxide-Incorporated Epoxy Matrix Composites. Among various chemical treatments available, alkaline treatment or mercerization is one of the most frequent treatments used to reinforce thermoplastic and thermoset polymer composites.

## **Cellulose defibrillation and functionalization by plasma in liquid treatment**

Boehm H 2002 Surface oxides on carbon and their analysis: a critical assessment.

## **Interfacial characterization, control and modification of carbon fiber reinforced polymer composites**

A small shoulder coming from the Si 111 planes of the substrate was also observed. The average high-speed effect test findings reveal that approximately 30% of the volume fraction of both kenaf and Kevlar fibers is more effective for the energy absorbed contributed by the fact that 30% of the fibers has stronger interfacial surface properties, contributing to an improvement in surface area for energy dissipation.

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