

The result reveals that the cattail fiber is capable for spinning with cotton fiber together. The strength of the three blending yarn is higher than that of the pure cotton yarn.

Using the structural module in combination with hidden Markov models, we developed the first tail fiber structural atlas, covering 24% of a set of pre-annotated tail fibers on UniProtKB.

In this study, the physical and chemical properties, micro/nano structure, and mechanical characteristics of CFs were investigated. The CFs have a low density (618.0 kg m⁻³).

Despite the wide occurrence of Tfa proteins, their functional mechanism has not been elucidated. Here, we investigate the tail fibre and Tfa of Escherichia coli phage Mu.

Introduction Tail fiber function and structure 2.1. Hypothesis 2.2. Staged or ordered assembly 2.3. Possible applications Tail fiber production and purification Tail fiber modifications 4.1. Deletions and ...

This study addresses these gaps by offering an in-depth review of the entire lifecycle of cattail fibers, from species identification and fiber extraction techniques to material characterization and industrial ...

Integrating plant biology and materials chemistry is vital for enhancing cattail fiber characteristics and developing engineered bioproducts. This review explores cattails' environmental benefits, including ...

The principal bundles over noncommutative spaces typically have structure group replaced by a Hopf algebra; the most well-known class whose base is described by a single algebra ...

To extend the applications of cattail fibers in the textile, engineering and apparel industry, the morphological structure and properties of cattail fibers were tested and analyzed. The morphology ...

The bundle tail fiber is a crucial component in the fiber optic cable assembly, and any failure in this component can significantly impact the performance of the entire system. This article ...

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