Textile and Polymers

Under the direction of
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Research Interests:
- textile fibers and textile finishing
- biopolymers and chitin-chitosan modifications
- functional polymers and polymer modifications
- nanomaterials.

Research Programs:

Natural Fibers

Natural fibers have been received much attention due to they made from plants which are bio- and renewable resources. Our researches concentrate on natural fibers productions using environmental friendly processes and have less risks to human health. Our team have studied on a preparation of bamboo fiber and yarn from bamboo sheath.

Textile Finishing

Textile finishing is the one of importance methods to meet the requirement properties such as stain repellence for self cleaning textile. In the past, our team proposed the preparation of cotton fabric having not only stain repellent property but also good air permeability for skin comport by using admicellar polymerization and irradiation techniques. In addition, our researches focus on modifications of cotton fabric with chitosan for enhancing its properties, dyeing of silk with natural dyes, and preparations of microcapsule chitosan for textile finishing.

Publications: