

Indigo Blue: Progress for Sustainable Future & International Activities: Perspective of global capability

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Indigo blue is one of the oldest natural dyes and one of the colors of the rainbow, as easily favorable as it is fashionable. Indigo has passed down far and wide from Egyptian mummies to blue jeans. Today in textile and fashion industry, indigo is an important vat dyes used extensively to dye cotton yarn for making denims and blue jeans. However, in commercial dyeing using sodium dithionite, it generates environment-polluting effluents, in addition to by-products containing sulfur. Considered the global concerns of environmental pollution and sustainable development, it is a challenging task to develop cleaner dyeing process. We will share about how to develop research for improving eco-friendliness of indigo dyeing, how to explore bioprocess, and what to learn in the process of the international cooperation with research task.