

## **Materials innovation for smart textiles towards sustainable fashion**

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### **ABSTRACT**

Fashion sustainability has attracted growing concerns because fashion industry is one of the largest polluters with significant environmental impact. To ensure sustainable development, the industry has been transitioning to a circular economy model with emphasis on regenerating nature, keeping materials in use and eliminating wastes. This talk will overview some of the recent research work in the field of materials innovation towards fashion sustainability. Specifically, smart textiles for performance, protection and wearable electronics will be reported, and some materials innovation on cotton for sustainability will be discussed. It has been found that smart textiles for sustainable fashion can be achieved via materials selection, innovative technology and proper end-of-life strategies. This talk will give some insights materials innovation towards sustainable development of fashion and textiles.