

Planning 2: Providing topics by outstanding young researchers in world textile engineering



Dr Xuqing LIU
(Fibre Chemistry group in the
University of Manchester)

1. Lecture topic:
Fibre Surface Molecular Engineering for Smart Textiles and Wearable Devices

2. Lecture style:
On-line via Zoom

Speakers Biography

Dr Xuqing LIU is leading a Fibre Chemistry group in the University of Manchester, and he is an Independent Research Fellow in Textile Bioengineering and Science. Dr Liu obtained his BS in Chemistry at the Lanzhou University, China, then he went on to the Chinese Academy of Sciences to start his research in developing new synthetic lubricates and tribology chemistry and physics. In 2011, he moved to the Hong Kong Polytechnic University, as a PhD student in Prof Zijian Zheng and Prof Yi LI's groups, studying smart textiles and functional fabrics. During 2013-2014, he was a visiting PhD student in Prof Robert Young's group at the University of Manchester. Completing his doctorate in 2015, Dr Liu joined the University of Manchester as an independent Research Fellow, where he investigates Fibre Surface Molecular Engineering.

Dr Liu's group utilizes the basic principles in chemistry, material sciences, textiles, and fashion, to enable novel applications and development of flexible, stretchable electronics, energy devices and functional fashion. More than 80 research papers have been published in high-quality journals, such as Advanced Materials, Advanced Functional Materials, Nano Letters, Small, and ACS Nano.

Dr Xuqing Liu is the Chairman of the Chinese Textile and Apparel Society (CTAS–UK). He is the Fellow of the Royal Society of Arts, and Fellow of the Higher Education Academy. He is also serving on the Editorial Boards of Advanced Fiber Materials, SmartMat, Energy & Environmental Materials.