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EDUCATION

Philadelphia University Philadelphia, PA, U.S.A. Jan. 2010-present
Master of Science (Expected in Dec. 2011) Major: Textile Engineering

Donghua (China Textile) University Shanghai, P.R. China Sep. 2005-July 2009
Bachelor of Engineering Major: Textile Engineering

RESEARCH EXPERIENCE

- 1) **Jan. 2010-present**, Research assistant for the applications of medical textiles in tissue engineering
- 2) **June 2008-July 2009**, Research assistant for a project on preparation and characterization of nanocoating for high performance fibers.
- 3) **Oct. 2007-April 2008**, Research assistant for a project on preparation and characterization of nanocomposite filaments reinforced with nano-particles.

SELECTED PUBLICATIONS

- 1) Yingchen Zhang, **Haiyan Zhu**, Hongyan Wu, Yiping Qiu. Effects of helium plasma treatment on tensile behaviour of nano-SiO₂ sol-gel coating T300 carbon fiber. ACTA PHYSICA SINICA, 2009; 58(6):S298-S305
- 2) Yingchen Zhang, **Haiyan Zhu**, Jingnan Huang, Jing Zou, Hongyan Wu, Yiping Qiu. Effects of oxygen plasma treatment on tensile deformation of nano-SiO₂ sol-gel coating ultra-high molecular weight polyethylene filaments. ACTA PHYSICA SINICA, 2009; 58(6):S292-S297
- 3) **Haiyan Zhu**, Yingchen Zhang, Jing Zou, Hongyan Wu, Yiping Qiu. The microstructural deformation of the montmorillonite particles/polypropylene/polylactic acid nanocomposite filaments infused with plasma treated montmorillonite. Materials Science Forum, 2009; 620-622: 469-472
- 4) **Haiyan Zhu**, Yingchen Zhang, Hongyan Wu, Yiping Qiu. Nano effects of oxygen-plasma treatment nano-SiO₂ sol-gel coating T-300 carbon fiber. Materials Science Forum, 2009; 610-613:706-713
- 5) Yingchen Zhang, **Haiyan Zhu**, Hongyan Wu, Yiping Qiu. The effects of plasma treatment on the strain rate sensitivity of montmorillonite particles/PP/PLA nano-composite filaments. Proceedings of the Fiber Society 2009 Spring Conference, Vols I and II, 2009:357-361

PRESENTATIONS

- 1) **Oct.7th-9th, 2009**, Oral Presenter, Third China-Japan Joint Seminar on Green Composites in Donghua University, Shanghai, China. 'Effects of plasma