


Brief CV

Name	Shen Xu	Gender	Female	
Title (Pro./ Dr)	Dr.	Country	China	
Phone Number		Emails		
University Department	Automotive Engineering College, Shanghai University of Engineering Science			
Personal Web Sites				
Research Area	Micro/Nanoscale heat transfer, Thermal Management			

Brief introduction

Shen Xu's research projects focus on micro/nanoscale-energy-transfer theory, heat transfer in complex nanostructures, and multiphysics coupling, including temperature, optics and stress, etc. The main research directions include: research on the measurement and mechanism of thermal conductivity of low-dimensional nano-materials, development and application of new technologies of micro/nanoscale photothermal measurement, and research on the heat conduction mechanism of biomass in pyrolysis.

WORK EXPERIENCE

- 8/2015-6/2016 Postdoctoral fellow, Mechanical Engineering, Iowa State University
- 9/2016-9/2017 Instructor, Automotive Engineering College, Shanghai University of Engineering Science
- 9/2017-present Associate professor, Automotive Engineering College, Shanghai University of Engineering Science

EDUCATION

- 8/2011-7/2015 PhD in Mechanical Engineering, Iowa State University, Ames, IA, USA
- 9/2008-6/2011 Master in Optics, Fudan University, Shanghai, PR China
- 9/2004-6/2008 Bachelor in Material Science and Engineering, East China University of Science and Technology, Shanghai, PR China

HONORS AND AWARDS

2017 Youth Eastern Scholar, Shanghai.

SELECTED PUBLICATIONS

1. Bowen Zhu, Jing Liu, Tianyu Wang, Meng Han, Shah Valloppilly, **Shen Xu***, and Xinwei Wang*, 2017 "Novel Polyethylene Fibers of Very High Thermal Conductivity Enabled by Amorphous Restructuring," ACS Omega, 2, 3931–3944.
2. **Shen Xu**, Tianyu Wang, David Hurley, Yanan Yue, Xinwei Wang, 2015, "Time-Domain Differential Raman for Transient Thermal Probing and Thermal Diffusivity Measurement", Optics Express, 23, 10040-10056.
3. **Shen Xu** and Xinwei Wang, 2014, "Across-plane Thermal Characterization of Films Based on Amplitude-frequency Profile in Photothermal Technique," AIP Advances, 4, 107122.
4. **Shen Xu**, Zaoli Xu, James. Starrett, Cheryl. Hayashi, and Xinwei Wang, 2014, "Cross-plane Thermal Transport in Micrometer-thick Spider Silk Films", Polymer, 55, 1845-1853.
5. **Shen Xu**, Xiaoduan Tang, Yanan Yue, and Xinwei Wang, 2013, "Sub-micron Imaging of Sub-surface Nanocrystalline Structure in Silicon", Journal of Raman Spectroscopy, 44, 1523-1528.

CONFERENCE POSTERS AND PRESENTATIONS

1. Fiber Society Conference, 2014, October 22-24, Philadelphia, VA, USA.
2. Applied Hair Science Conference, 2014, September 18-19, Princeton, NJ, USA.
3. FCRD Advanced Campaign Integration Meeting, 2014, August 26-28, Idaho National Lab, ID, USA.
4. The International Thermal Conductivity Conference (ITCC) and the International Thermal Expansion Symposium (ITES), 2014, April 27-May 1, Purdue University, IN, USA.

PEER REVIEW

Provide reviews for papers from journals including *International Journal of Thermophysics*, *Scientific Reports*, and conference.