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个人简介: (教育背景、工作经历)

2015年在美国爱荷华州立大学获得机械工程博士学位。主要从事微米/纳米量级的能量传输理论和实验研究。主持上海市教委人才计划项目1项，参与国家自然科学基金面上项目1项，共发表SCI论文35篇，申请受理发明专利1项，获批实用新型专利1项。

主要科研成果: (代表性论文、专利、著作等)

- (1) **Shen Xu**, Aoran Fan, Haidong Wang, Xing Zhang, and Xinwei Wang, Raman-based Nanoscale Thermal Transport Characterization: A Critical Review, *International Journal of Heat and Mass Transfer*, 2020.4.5, 154: 119751.
- (2) **Shen Xu**, Jing Liu, and Xinwei Wang, 2020, Thermal Conductivity Enhancement of Polymers via Structure Tailoring (invited review), *Journal of Enhanced Heat Transfer*, 2020 (in print).
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- (5) Bowen Zhu; Jing Liu; Tianyu Wang; Meng Han; Shah Valloppilly; **Shen Xu**; Xinwei Wang, Novel Polyethylene Fibers of Very High Thermal Conductivity Enabled by Amorphous Restructuring, *ACS Omega*, 2017.7.26, 2(7): 3931~3944.
- (6) **Shen Xu**, Tianyu Wang, David Hurley, Yanan Yue, Xinwei Wang, Development of time-domain differential Raman for transient thermal probing of materials, *Optics Express*, 2015, 23(8): 10040-10056.
- (7) Tianyu Wang, **Shen Xu**, David H. Hurley, Yanan Yue, Xinwei Wang*, Frequency-resolved Raman for transient thermal probing and thermal diffusivity measurement, *Optics Letters*, 2015, 41(1): 80-83.
- (8) **Shen Xu**; Zaoli Xu; James Starrett; Cheryl Hayashi; Xinwei Wang, Cross-plane thermal transport in micrometer-thick spider silk films, *Polymer*, 2014.01.01, 55(7): 1845~1853.
- (9) **Shen Xu**, Xinwei Wang*, Across-plane thermal characterization of films based on amplitude-frequency profile in photothermal technique, *AIP Advances*, 2014, 4(10): 107122.
- (10) Huan Lin, **Shen Xu**, Xinwei Wang*, Ning Mei, Significantly reduced thermal diffusivity of free-standing two-layer graphene in graphene foam, *Nanotechnology*, 2013, 24(41): 415706.

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