

Hui Sun

Laboratory for Advanced Biopolymers
Department of Civil and Environmental Engineering, MIT
77 Massachusetts Ave Room 1-173, Cambridge, MA 02139
Tel: (213) 421-6653, E-mail: huisun@mit.edu

Education Background

- PhD student, **Massachusetts Institute of Technology** June 2017 - Present
PhD student, **University of Southern California** Aug. 2016 - May 2017
M.S. in Solid Mechanics, **Peking University** Sept. 2013 - July 2016
- Thesis: Investigation of Mechanical Properties of Nacre-inspired Composites
 - Advisor: Prof. Huiling Duan (Peking University)
- B.Eng. in Civil Engineering, **Sichuan University** Sept. 2009 - June 2013
- Thesis: Investigation of Slip Property of Superhydrophobic Surfaces
 - Advisor: Prof. Huiling Duan (Peking University)

Research Interests

- Bio-inspired materials and structures
- Applications of structural biopolymers
- Development of advanced biocomposites with additive manufacturing

Publications

- Yahui Xue, Yanbing Yang, **Hui Sun**, Xiyang Li, Shiting Wu, Anyuan Cao, Huiling Duan*. “A switchable and compressible carbon nanotube sponge electrocapillary imbiber”. *Advanced Materials* 27, 7241-7246 (2015)
- Yuanyuan Shi, Yanfeng Ji, **Hui Sun**, Fei Hui, Jianchen Hu, Yaxi Wu, Jianlong Fang, Hao Lin, Jianxiang Wang, Huiling Duan*, Mario Lanza*. “Nanoscale characterization of PM2.5 airborne pollutants reveals high adhesiveness and aggregation capability of soot particles”. *Scientific Reports* 5, 11232-11241 (2015)
- Mario Lanza, Yan Wang, **Hui Sun**, Yuzhen Tong, Huiling Duan*. “Morphology and performance of graphene layers on as-grown and transferred substrates”. *Acta Mechanica* 225, 1061-1073 (2014)

Activities

- Conferee of *The 2013 Chinese Congress of Theoretical and Applied Mechanics* Aug. 2013
- Teaching Assistant of *Calculus*, Peking University Sept. 2014 - Jan. 2015

Honors and Awards

- Provost Ph.D. Fellowship, University of Southern California Feb. 2016
- Special Academic Scholarship of Solid Mechanics, Peking University Nov. 2014
- National Scholarship, Ministry of Education of China Sept. 2010