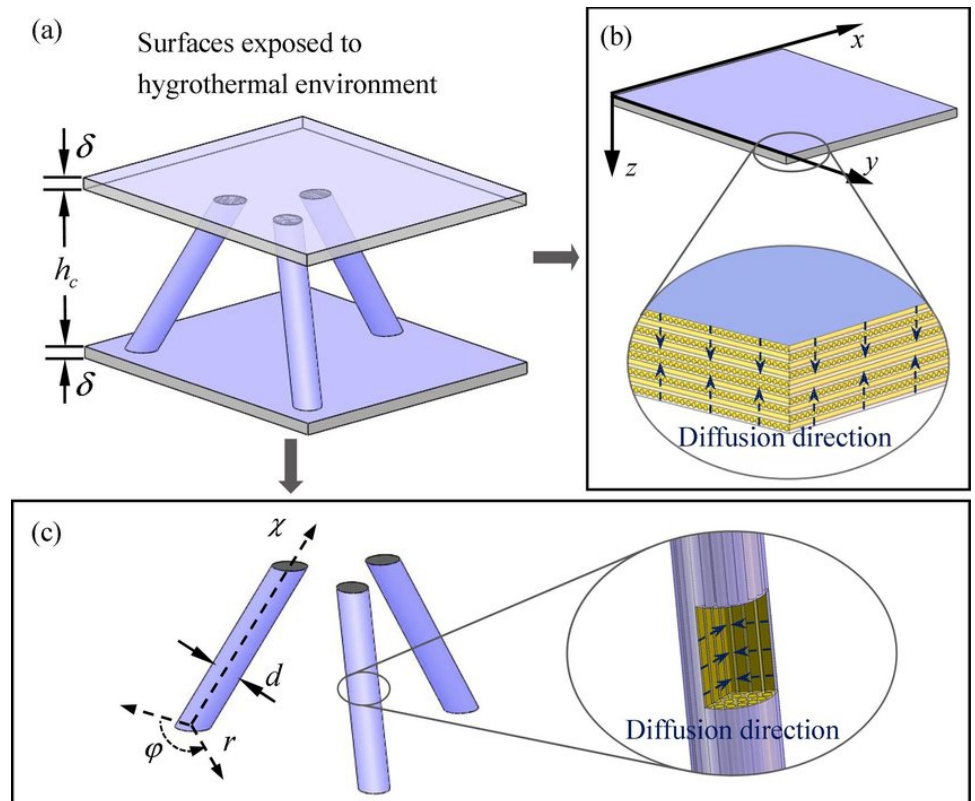




Professor Jiayi Liu



From: Jie Mei, P.J. Tan, Jiayi Liu, Zhenping He and Wei Huang, “Moisture absorption characteristics and mechanical degradation of composite lattice truss core sandwich panel in a hygrothermal environment”, *Composites Part A Applied Science and Manufacturing*, Vol. 127, Article ID 105647, September 2019

See:

https://www.researchgate.net/profile/Jiayi_Liu2

School of Naval Architecture and Ocean Engineering
Huazhong University of Science and Technology (HUST), Wuhan 430074, China

Selected Publications:

- Jian Xiong, Li Ma, Linzhi Wu, Jiayi Liu and Ashkan Vaziri, “Mechanical behavior and failure of composite pyramidal truss core sandwich columns”, *Composites Part B Engineering*, Vol. 42, No. 4, February 2011
- Pan, K.Q., Liu, J.Y.: Geometric nonlinear dynamic analysis of curved beams using curved beam element. *Acta Mech. Sin.* 27, 1023–1033 (2011)
- Jiayi Liu, Zhengong Zhou, Li Ma, Jian Xiong and Linzhi Wu, “Temperature effects on the strength and crushing behavior of carbon fiber composite truss sandwich cores”, *Composites Part B Engineering*, Vol. 42, No. 7, pp 1860-1866, October 2011
- Jiayi Liu, Zhengong Zhou, Linzhi Wu, Li Ma and Shidong Pan, “Shear response of carbon fiber composite pyramidal truss structures after high-temperature exposure”, *Journal of Reinforced Plastics and Composites*, Vol. 31, No. 18, pp 1216-1225, September 2012
- Jiayi Liu, Zhengong Zhou, Linzhi Wu and Li Ma, “A study on mechanical behavior of the carbon fiber composite sandwich panel with pyramidal truss cores at different temperatures”, *Science China: Physics, Mechanics and Astronomy*, Vol. 55, No. 11, October 2012
- Jiayi Liu, Zhengong Zhou, Linzhi Wu and Li Ma, “Mechanical behavior and failure mechanisms of carbon fiber composite pyramidal core sandwich panel after thermal exposure”, *Journal of Materials Science and Technology – Shenyang*, Vol. 29, No. 9, pp 846-854, September 2013

Jiayi Liu, X. Zhu, Zhengong Zhou and Linzhi Wu, "Effects of thermal exposure on mechanical behavior of carbon fiber composite pyramidal truss core sandwich panel", *Composites Part B Engineering*, Vol. 60, pp 82-90, April 2014

Jiayi Liu, Xiang Zhu, Tianyun Li, Zhengong Zhou, Linzhi Wu and Li Ma, "Experimental study on the low velocity impact responses of all-composite pyramidal truss core sandwich panel after high temperature exposure", *Composite Structures*, Vol. 116, pp 670-681, September-October 2014

Jiayi Liu, Wufeng Qiao, Jingxi Liu, De Xie, Zhengong Zhou, Li Ma, Linzhi Wu, "The compressive responses of glass fiber composite pyramidal truss cores sandwich panel at different temperatures", *Compos. Part A Appl. Sci. Manuf.* 73 (2015) 93-100.

Jiayi Liu, Wufeng Qiao, Jingxi Liu, De Xie, Zhengong Zhou, Li Ma and Linzhi Wu, "The compressive responses of glass fiber composite pyramidal truss cores sandwich panel at different temperatures", *Composites Part A Applied Science and Manufacturing*, Vol. 73, March 2015

Jiayi Liu, Linling Xiang and Tao Kan, "The effect of temperature on the bending properties and failure mechanism of composite truss core sandwich structures", *Composites Part A Applied Science and Manufacturing*, Vol 79, pp 146-154, December 2015

Jiayi Liu, Tao Kan, Jia Lou and Linling Xiang, X. Zhu and Yongsheng Tang, "Localized damage response of carbon fiber reinforced polymer composite sandwich panel after thermal exposure", *Polymer Testing*, Vol. 50, pp 33-40, April 2016

Liu, Z.Y., Liu, J.Y.: Experimental validation of rigid-flexible coupling dynamic formulation for hub-beam system. *Multibody Syst. Dyn.* 40(3), 303–326 (2017)

Jie Mei, P.J. Tan, Jiayi Liu, Zhenping He and Wei Huang, "Moisture absorption characteristics and mechanical degradation of composite lattice truss core sandwich panel in a hygrothermal environment", *Composites Part A Applied Science and Manufacturing*, Vol. 127, Article ID 105647, September 2019

Jialin Liu, Tao Zhang, Weimin Jiang, Jiayi Liu, "Mechanical response of a novel composite Y-frame core sandwich panel under shear loading", *Composite Structures*, Vol. 224, Article 111064, 15 September 2019

Wei Huang, Zihao Fan, Wei Zhang, Jiayi Liu and Wu Zhou, "Impulsive response of composite sandwich structure with tetrahedral truss core", *Composites Science and Technology*, Vol. 176, pp 17-28, 26 May 2019

Jialin Liu, Zhenping He, Jiayi Liu and Wei Huang, "Bending response and failure mechanism of composite sandwich panel with Y-frame core", Article 106387, *Thin-Walled Structures*, Vol. 145, December 2019