

Fig. 4. Specimens in quasi-static experiments (a) triangular lattice cylindrical shell, (b) triangular lattice sandwich cylindrical shell.



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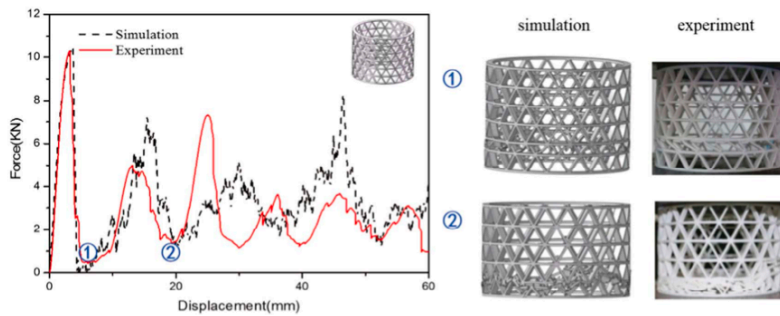


Fig. 5. Comparison of the force-displacement curves between experiment and simulation for the triangular lattice cylindrical shell.

From: Liming Chen, Jian Zhang, Bing Du, Hao Zhou, Houchang Liu, Yongguang Guo, Weiguo Li and Daining Fang, “Dynamic crushing behavior and energy absorption of graded lattice cylindrical structure under axial impact load”, *Thin-Walled Structures*, Vol. 127, pp 333-343, 2018

See:

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### Selected Publications:

- X.Y. Luo, Z.X. Cai, W.G. Li, T.J. Pedley, The cascade structure of linear stabilities of flow in collapsible channels, *The Journal of Fluid Mechanics* 600 (2008) 45–76
- J.Z. Xiao, W.G. Li, Y.H. Fan, et al., An overview of study on recycled aggregate concrete in China (1996–2011), *Constr. Build. Mater.*, 31 (6) (2012), pp. 364-383
- Li, W. G., Going, J., Hill, N. A. and Luo, X. Y. [2013] “Breaking analysis of artificial elastic tubes and human artery,” *International Journal of Applied Mechanics* 5(3), 1350024.
- W. G. Li, R. Z. Wang, D. Y. Li, X. L. Shen, H. B. Kou, and D. N. Fang, “Effect of the cooling medium temperature on the thermal shock resistance of ceramic materials,” *Mater. Lett.*, vol. 138, pp. 216–218, 2015
- Du, B., Chen, L. M., Zhou, H., Guo, Y. G., Zhang, J., Peng, S. W., Liu, H. C., Li, W. G. and Fang, D. N. [2017] “Fabrication and flatwise compression property of glass fiber-reinforced Polypropylene corrugated sandwich panel,” *International Journal of Applied Mechanics* 9(8), 1750110.
- Liming Chen, Jian Zhang, Bing Du, Hao Zhou, Houchang Liu, Yongguang Guo, Weiguo Li and Daining Fang, “Dynamic crushing behavior and energy absorption of graded lattice cylindrical structure under axial impact load”, *Thin-Walled Structures*, Vol. 127, pp 333-343, 2018
- Liu, H., Chen, L., Du, B., Peng, S., Guo, Y., Zhao, Y., Chen, L., Zhou, H., Li, W., Liu, P., Flatwise Compression Property of Hierarchical Thermoplastic Composite Square Lattice, *Composite Structures* (2018)
- Bing Du, Liming Chen, Wenjun Wu, Houchang Liu, Yang Zhao, Shiwei Peng, Yongguang Guo, Hao Zhou, Liliang Chen, Weiguo Li and Daining Fang, “A novel hierarchical thermoplastic composite honeycomb cylindrical structure: Fabrication and axial compressive properties”, *Composites Science and Technology*, Vol. 164, pp 136-145, August 2018

Bing Du, Liming Chen, Jingyan Tan, Hao Zhou, Yang Zhao, Wenjun Wu, Weiguo Li, Daining Fang and Liliang Chen, "Fabrication and bending behavior of thermoplastic composite curved corrugated sandwich beam with interface enhancement", *International Journal of Mechanical Sciences*, Vol. 149, pp 101-111, December 2018

Yong Tao, Weiguo Li, Kai Wei, Shenyu Duan, Weibin Wen, Liming Chen, Yongmao Pei and Daining Fang, "Mechanical properties and energy absorption of 3D printed square hierarchical honeycombs under in-plane axial compression", *Composites Part B: Engineering*, Vol. 176, Article 107219, 1 November 2019

Yong-Guang Guo, Jian Zhang, Liming Chen, Bing Du, Houchang Liu, Liliang Chen, Weiguo Li and Yizhi Liu, "Deformation behaviors and energy absorption of auxetic cylindrical structures under axial crushing load", *Aerospace Science and Technology*, Vol. 98, 105662, March 2020

Liming Chen, Shiwei Peng, Jian Liu, Houchang Liu, Liliang Chen, Bing Du, Weiguo Li and Daining Fang, "Compressive response of multi-layered thermoplastic composite corrugated sandwich panels: Modelling and experiments", *Composites Part B Engineering*, 107899, February 2020