

Professor Rui Li

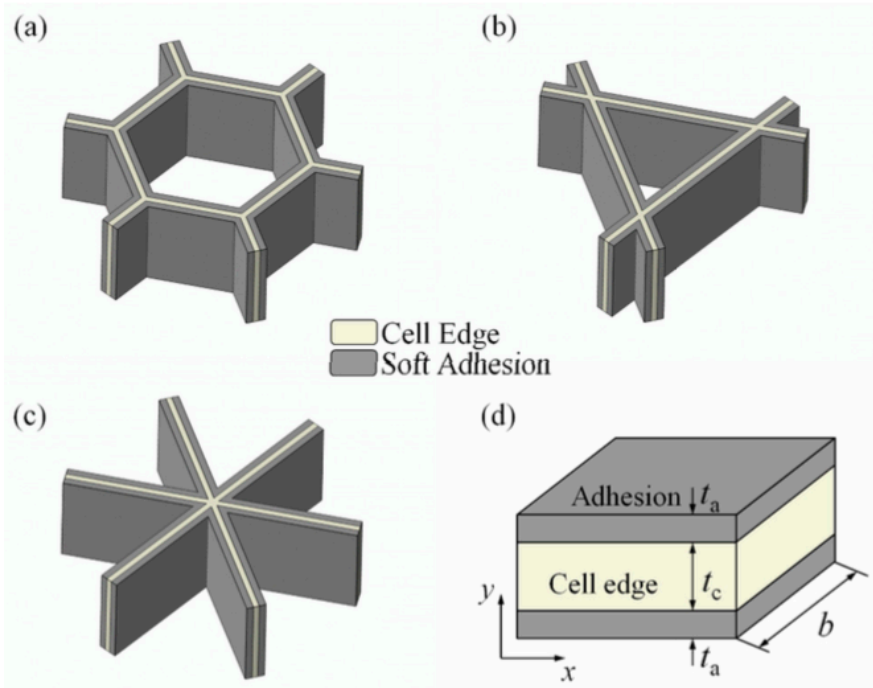


Figure.1 Hierarchical lattices and cell edge with adhesion. (a) Hierarchical hexagonal lattice. (b) Hierarchical Kagome lattice. (c) Hierarchical triangular lattice. (d) Section of hierarchical lattice's cell edge **From:** B. Wang, Y. Shi, R. Li, Y. Chen, Y. Mo, 2D hierarchical lattices' imperfection sensitivity to missing bars defect, *Theoretical and Applied Mechanics Letters* (2015), <http://dx.doi.org/10.1016/j.taml.2015.05.004>

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Personal Profile:

Dr. Rui Li is a full professor in the Department of Engineering Mechanics of Dalian University of Technology. He was a visiting scholar with the Department of Civil and Environmental Engineering and the Department of Mechanical Engineering, Northwestern University, USA. His research interests include plate and shell structures, mechanics of flexible electronics, soft matter, and mechanics in aeronautics and astronautics. He has published 80 journal papers in *Nature*, *Science*, *Advanced Functional Materials*, *Soft Matter*, *International Journal of Solids and Structures*, *Proceedings of the Royal Society A*, *Journal of Applied Mechanics*, etc., with more than 2000 citations. He is now serving on the editorial board of NPG journal *Scientific Reports*.

Selected Publications:

- Rui Li, Xinran Zheng, Yushi Yang, Mingqi Huang, Xiuwen Huang, "Hamiltonian system-based new analytic free vibration solutions of cylindrical shell panels", *Applied Mathematical Modelling*, Vol. 76, pp 900-917, December 2019
- Rui Li, Xinran Zheng, Pengcheng Wang, Bo Wang, Hao Wu, Yu Cao and Zhentao Zhu, "New analytic free vibration solutions of orthotropic rectangular plates by a novel symplectic approach", *Acta Mechanica*, Vol. 230, No. 9, pp 3087-3101, September 2019
- Salamat Ullah, Haiyang Wang, Xinran Zheng, Jinghui Zhang, Yang Zhong and Rui Li, "New analytic buckling solutions of moderately thick clamped rectangular plates by a straightforward finite integral transform method", *Archive of Applied Mechanics*, Vol. 89, No. 9, pp 1885-1897, September 2019

Rui Li, Haiyang Wang, Xinran Zheng, Sijun Xiong, Zhaoyang Hu, Xiaoye Yan, Zhe Xiao, Houlin Xu and Peng Li, "New analytic buckling solutions of rectangular thin plates with two free adjacent edges by the symplectic superposition method", *European Journal of Mechanics - A/Solids*, Vol. 76, pp 247-262, July-August 2019

Yewang Su, Hongyu Zhao, Siyi Liu, Rui Li, Youhua Wang, Yezhou Wang, Jing Bian and YongAn Huang, "Buckling of beams with finite prebuckling deformation", *International Journal of Solids and Structures*, Vol. 165, pp 148-159, 15 June 2019

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