



## SHORT BIO

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**Jian Xiong** is a tenured professor at Harbin Institute of Technology. He currently serves as the director of the Laboratory of Lightweight Materials and Structures (HIT), Deputy Director of the National Key Laboratory of Science and Technology on Advanced Composites in Special Environments, and Chairman of the Heilongjiang Youth Science and Technology Association.

In 2012, He obtained a doctoral degree from Harbin Institute of Technology, China, then worked as Humboldt Research Fellow in Siegen University, Germany from 2015.04 to 2016.08, and visiting scholar in Northeastern University, U.S (2011.01-2012.01), Siegen University, Germany (2013.09-2013.12), HongKong Polytechnic University(2017.12-2018.01) and National University of Singapore (2024.07).

He is mainly engaged in scientific research and teaching in the field of mechanics of composite materials and structures. Ultra-lightweight and high-strength have always been significant challenges in the development of aerospace structures. He is dedicated to researching high-strength design methods and mechanical properties of carbon fiber composite sandwich structures: designing novel composite lattice/folded core materials with exceptional specific strength; significantly enhancing the face-core interface properties of these novel composite sandwich structures; and establishing theoretical models for the mechanical properties of these structures. He has published more than 150 Journal and conference papers. These papers have been cited more than 5000 times, including citations from academicians from the United States, the United Kingdom, Europe, Germany, Japan, Russia, Australia, Korea, India, China, etc., as well as Airbus and NASA. Professor Atluri from the United States praised the work for filling gaps in the material selection map for mechanical properties, and Professor Shukla and others have included it in 20 English books. Twenty-four authorized invention patents have been granted, which have been applied in the design of lattice wings and thermal protection structures for spacecraft equipment. They were successfully used in the directional antenna of the "Zhurong" Mars rover, with its performance indicators evaluated by Aerospace organizations as reaching international leading levels.

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