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Date of Birth: 13/07/1975 Nationality: Chinese Sex: Male

Curriculum Vitae Updated: Jul. 21, 2019 <http://staff.ustc.edu.cn/~wuha/>

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## CURRENT POSITIONS

Professor, Dean, School of Engineering Sciences, University of Science and Technology of China  
Director, Key Laboratory of Mechanical Behavior and Design of Materials, Chinese Academy of Sciences

## EDUCATION AND WORKING EXPERIENCE

February.2004--present Associate Professor, Professor (from June 2010)  
Department of Modern Mechanics, University of Science and Technology of China  
June.2010--May.2011 Visiting Scholar  
Manchester Centre for Mesoscience and Nanotechnology, the University of Manchester  
August.2002--February.2004 Research Fellow  
Singapore-MIT Alliance, National University of Singapore

Sept.1993--June.2002, University of Science & Technology of China (USTC),  
BS in Theoretical and Applied Mechanics, Department of Modern Mechanics  
PhD in Solid Mechanics, Department of Modern Mechanics

## RESEARCH FIELDS OF INTEREST

Mechanical behaviors and micro-nano-structure design of materials;  
Computational mechanics and its application in multidisciplinary engineering

## REPRESENTATIVE PUBLICATIONS

- [1] *Delamination of a rigid punch from an elastic substrate under normal and shear forces*. Journal of the Mechanics and Physics of Solids, 2019. **122**: p. 141-160.
- [2] *Mechanical properties of copper octet-truss nanolattices*. Journal of the Mechanics and Physics of Solids, 2017. **101**: p. 133-149.
- [3] *Joule-heated graphene-wrapped sponge enables fast clean-up of viscous crude-oil spill*. Nature Nanotechnology, 2017. **12**(5): p. 434-440.
- [4] *Molecular transport through capillaries made with atomic-scale precision*. Nature, 2016. **538**(7624): p. 222-225.
- [5] *Super-elastic and fatigue resistant carbon material with lamellar multi-arch microstructure*. Nature Communications, 2016. **7**: p. 12920.
- [6] *Square ice in graphene nanocapillaries*. Nature, 2015. **519**(7544): p. 443-445.
- [7] *Proton transport through one-atom-thick crystals*. Nature, 2014. **516**(7530): p. 227-230.
- [8] *Self-adaptive strain-relaxation optimization for high-energy lithium storage material through crumpling of graphene*. Nature Communications, 2014. **5**: p. 4565.
- [9] *Precise and ultrafast molecular sieving through graphene oxide membranes*. Science, 2014. **343**(6172): p. 752-754.
- [10] *Unimpeded permeation of water through helium-leak-tight graphene-based membranes*. Science, 2012. **335**(6067): p. 442-444.