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*Visiting Lecturer*

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### Academic Qualification

- 2014 Ph.D (Material Processing Engineering), Lanzhou University of Technology, China  
2008 B.Eng (Material Processing and Control Engineering), Lanzhou University of Technology, China

### Working Experiences

- Jun 2017 – Current Visiting Lecturer, Faculty of Mechanical Engineering, Universiti Malaysia Pahang  
Sept 2014 – May 2017 Lecturer, School of Mechanical Engineering, Ningxia University, China

### Expert Area

Welding, Sandwich Structure, Mechanical Analysis and Finite Element Method

### Research Interest

Sandwich Structures, Lightweight Structures, Computational Mechanics and Finite Element Analysis, Material Testing and Performance Evaluation.

### Teaching Experience

#### Semester I 2016/2017

- 1310098 Engineering Material and Forming Technology ( B); 4 credits; 5 hours/week; 60 students  
1310005 Fundamental of Mechanical Manufacture (A); 3credits ; 3 hours/week ; 26 students

#### Semester II 2015/2016

- 1310098 Engineering Material and Forming Technology ( B); 4 credits; 5 hours/week; 61 students  
18010992 Engineering Materials; 3 credits ; 3 hours/week; 31 students  
180117871 Press Tool Design; 2 credits; 61 students

#### Semester I 2015/2016

- 31310097 Engineering Material and Forming Technology (A); 4 credits; 5 hours/week; 111 students

#### Semester II 2014/2015

- 1310006 Fundamental of Mechanical Manufacture (B); 2 credits ; 2 hours/week ; 37 students

### List of Publications

Selected Papers:

1. **Jiang, X. X.**, Fei, S. C., Zhang, S., Ji, H., & Zhu, L. (2017). Failure Analysis of the Laser-Welded Web-Core Steel Sandwich Panel with Narrow Weld Width T-Joints. *In Applied Mechanics and Materials* (Vol. 863, pp. 311-316).

2. **Jiang, X. X.**, Zhu, L., Fei, S.C, Zhang, S., Hu, C. Sh., & Wang, G. (2016). Three-Point Bending Behavior of Web-core Steel Sandwich Panel. *International Conference on Advanced Materials Science and Environmental Engineering*.
3. **Jiang, X. X.**, Hu, Ch. Sh., Huang.R. Y., & Liu, J.P. (2016). Review on stiffness of laser welded steel sandwich panels, *Hot Working Technology*. (Vol. 23, pp. 10-13).
4. **Jiang, X. X.**, Li, J. M., Cao, R., Zhu, L., Chen, J. H., Wu, Y. X., & Li, Z. G. (2015). The stiffness analysis considering joint geometry parameters of I-core steel sandwich plates. *Transactions of The China Welding Institution*, (Vol. 36, pp. 6-18).
5. **Jiang, X. X.**, Zhu, L., Qiao, J. S., Wu, Y. X., Li, Z. G., & Chen, J. H. (2015). The stiffness analysis of laser welded web-core steel sandwich plates. *Hot Working Technology*, (Vol. 44, pp. 162-165).
6. **Jiang, X. X.**, Li, J. M., Cao, R., Zhu, L., Chen, J. H., Wu, Y. X., & Li, Z. G. (2014). Microstructures and properties of sandwich plane laser-welded joint of hull steel. *Materials Science and Engineering: A*, 595, 43-53.
7. **Jiang, X. X.**, Zhu, L., Qiao, J. S., Wu, Y. X., Li, Z. G., & Chen, J. H. (2014). The strength of laser welded web-core steel sandwich plates. In *Applied Mechanics and Materials* (Vol. 551, pp. 42-46).
8. **Jiang, X. X.**, Zhu, L., Qiao, J. S., Wu, Y. X., Li, Z. G., & Chen, J. H. (2014). Bending properties of laser welded web-core steel sandwich plates. In *Advanced Materials Research* (Vol. 936, pp. 1451-1455).
9. **Jiang, X. X.**, Lei, W.F., Chen, J. H., & Zhu, L (2014). The Bending Test of Laser-welded I-core all-Steel Sandwich panel, *Journal of Lanzhou university of Technology*, (Vol. 1, pp. 15-18).
10. **Jiang, X. X.**, Zhu, L., Qiao, J. S., Wu, Y. X., Li, Z. G., & Chen, J. H. (2014). Effect of weld width on strength of laser-welded I-core steel Sandwich plate. *Journal of Lanzhou university of Technology*, (Vol. 6, pp. 14-17).

#### List of Research / Project

1. Study on Failure Mechanism of Laser - welded High Strength Steel I-core Sandwich Plates, Ningxia High School Scientific Research Project (No. NXY2017016), RMB 50,000, 31/09/2017 – 31/09/2019, Project leader
2. Research on the design and optimization method of metal sandwich panels, Nature Science Foundation of Ningxia Hui Autonomous Region (No. NZ16049), RMB 30,000. 31/07/2016 - 31/07/2018, Project leader
3. Mechanical behaviors of laser-welded steel sandwich structure plates and design of structure, Research Starting Funds for Imported Talents, Ningxia University (No. BQD2014021), RMB 80,000. 01/04//2015 - 01/04/2017, Project leader
4. Formation and deformation mechanism of metastable phase in TiAl alloy melt extracted fiber. National Nature Science Foundation of China (No. 51604159), RMB 210,000. 1/2017 - 12/2019, Project member (First).
5. Multi-scale modelling of microstructure evolution during hot deformation of Aluminium Alloy using evolutionary algorithm, National Nature Science Foundation of China (No.51475156), RMB 880,000. 01/01/2015 - 31/12/2017, Project member
6. Preparation and application of metal fiber, Research Starting Funds for Imported Talents, Ningxia University (No.BQD2014019), RMB 80,000. 01/04//2015 - 01/04/2017, Project member
7. Sensitivity and noise characteristics of giant magneto impedance sensor under bias voltage, Nature Science Foundation of Ningxia Hui Autonomous Region (No.NZG2015056), RMB 50,000. 24/11//2015 - 31/12/2017, Project member
8. Lightweight design and deformation behavior of aluminum alloy structure for automotive, Research Starting Funds for Imported Talents, Ningxia University (No. BQD2014018), RMB 80,000. 01/04//2015 - 01/04/2017, Project member
9. Basic research on the manufacture of laser-welded high strength steel sandwich plates, National Nature Science Foundation of China (No. 51035004), RMB 2,000,000. 1/2011 - 01/2015, Project member.