

LEI DING

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EDUCATION

Xi'an Jiaotong University

M.S. in Material Science

Overall GPA: 3.60/4 (89.3/100)

September 2018 - Present

Xi'an Jiaotong University

B.S. in Material Science & Engineering

Overall GPA: 3.41/4 (77.1/100, 86.8/100, 89.9/100, 86.4/100)

September 2014 - June 2018

STANDARD TEST

IELTS 7.0 (7.5, 7.5, 6.5, 6.0)

PUBLICATION

Search for large elastocaloric effects in Ti-Ni shape memory alloys using superelasticity data, Ding, L., Zhou, Y.M., Xu, Y.Y., Dang, P.F., Ding, X.D., Sun, J., Lookman, T., Xue, D.Z. (Manuscript submitted for publication.)

EXPERIENCE

Research Experience: Large Elastocaloric Effect in Ni-rich Ti-Ni Shape Memory Alloys and Strategy for Elastocaloric Performance Optimizing

Xi'an Jiaotong University

July 2018 - September 2020

Xi'an City, P.R. China

- Proposed a new strategy to optimize the elastocaloric effect in shape memory alloys.
- Developed a group of Ti-Ni alloys of high elastocaloric performance with $\Delta T_{ad} > 35\text{K}$.

Research Experience: Micro-structure and Mechanical Performance of As-extruded Mg-RE-Zn Alloy and Performance Optimizing by Heat-treatment

Xi'an Jiaotong University

October 2017 - July 2018

Xi'an City, P.R. China

- Researched the micro-structure evolution and change of mechanical performances under different heat-treatment conditions.
- Optimized mechanical performance of the Mg-Gd-Y-Zn-Zr alloy by tuning heat-treatment conditions.

Yellow River Tool & Die Co., Ltd.

Internship in Design Department

27 July 2015 - 21 August 2015

Xi'an City, P.R. China

- Got familiar with the designing and manufacturing process of automobile panel dies.
- Learned the design and modeling based on UG-NX software platform.

Hailong Petroleum Machinery Co., Ltd.

Internship in Production Department

22 January 2015 - 12 February 2015

Weifang City, P.R. China

- Got familiar with the manufacturing of petroleum machinery.
- Acquired an understanding of the techniques and facilities for material processing, like the heat treatment and the Carburizing processing of machinery parts.

HONORS & AWARDS

First Grade Graduate Student Scholarship	October 2020
First Grade Graduate Student Scholarship	October 2019
First Grade Graduate Freshman Scholarship	October 2018
Siyuan Scholarship of Xi'an Jiaotong University	December 2017

SKILLS

Coding Skills	Python, R, Matlab, Flutter
Software	Latex, Prezi, Office, OriginLab, etc.
Experiment Skills	Proficiency in operating Tensile Machine, DMA, DSC, TMA, Smelter, etc. Rich experience in material characterizing by TEM, SEM, XRD, etc.