

# LEI DING

No.28 Xianning West Road, Xi'an City, P.R. China 710049

(86)182-9288-5642

sgyzdl@gmail.com

## EDUCATION

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**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

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**IELTS**      7.0 (7.5, 7.5, 6.5, 6.0)

## PUBLICATION

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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

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

July 2018 - September 2020

*Xi'an Jiaotong University*

*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**

October 2017 - July 2018

*Xi'an Jiaotong University*

*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.

**Xuhao Plastic Rubber Mould Co., Ltd.**

30 June 2016 - 8 July 2016

*Internship in Production Department*

*Xi'an City, P.R. China*

- Got familiar with mould manufacturing by CNC Milling Planer.
- Got familiar with the production of injection-molded parts.

**Yellow River Tool & Die Co., Ltd.**

27 July 2015 - 21 August 2015

*Internship in Design Department*

*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.**

22 January 2015 - 12 February 2015

*Internship in Production Department*

*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

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

## SKILLS

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