



Curriculum Vitae

PERSONAL INFORMATION

Name: Lifei Wang **Gender:** Male **Nationality:** China, P.R.C.
Date of Birth: 1989.7.9 **Major:** Materials Science and Engineering
Education Degree: P. H. D **Tel:** +86 18635166011
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 No. 79, West Yingze Street, Taiyuan, Shanxi Province, P. R. C

PERSONALSKILLS

LANGUAGES:

CHINESE: Mother Tongue
ENGLISH: Reading skills: Excellent
 Writing skills: Excellent
 Verbal skills: Excellent
ITALIAN: Reading skills: Good
 Writing skills: Basic
 Verbal skills: Basic

PROFESSION: 1. In charge of various mechanical test methods: tension, compression, bending and so on;
 2. In charge of various deformation on magnesium alloys: extrusion, backward extrusion, rolling, ECAP, deep drawing;
 3. In charge of various SEM analysis methods: SEM, EDS, EBSD;
 4. In charge of various FEM software: CAD, PRO/E, DEFORM 3D;
 5. Skilled in analysis of deformation mechanism of magnesium alloys.

EDUCATION AND WORKING BACKGROUD

TIME	UNIVERSITY	MAJOR	NATION	DEGREE
2015.7- Present	Taiyuan University of Technology	Material Science and Process Engineering	China	Researcher
2012.9-2015.6	Chongqing University	Material Science and Engineering	China	P. h. d
2013.9- 2014.10	Politecnico di Milano	Metallurgical Engineering	Italy	Joint-P.d.d
2012.9-2015.6	Chongqing University	Material Science and Engineering	China	Master

AWARDS

2016 Outstanding graduation thesis in Chongqing University
 2014 National Scholarship of doctoral candidate from Chinese Ministry of Education
 2014 Outstanding graduate student in Chongqing University
 2013 Joint training scholarship from China Scholarship Council (CSC)
 2012 Outstanding student in Chongqing University
 2011 Outstanding student in Chongqing University

RESEARCH FIELD

1. Relationship between microstructure, texture and properties of lightweight Metals;
 2. Degradable biomedical magnesium alloys.

ACADEMICS

1. Publications

- [1] **Lifei Wang**, Miao Cao, Shuming Yang, Hua Zhang, Dongya Wang, Xiaoqing Cao. Effects of Pre-Strain on the Evolution of Microstructure and Strain Hardening of Extruded Az31 Magnesium Alloy. Materials Research, 2017, DOI: <http://dx.doi.org/10.1590/1980-5373-MR-2016-0498>.
- [2] **Lifei Wang**, Hua Zhang, Guangsheng Huang, Miao Cao, Xiaoqing Cao, Ehasn Mostaed and Maurizio Vedani. Formability and anisotropy of the mechanical properties in commercially pure titanium after various routes normal and different speed rolling. Journal of Materials Research, 2016, 31: 3372~3380. *(Cover page of the Journal in volume 31)*
- [3] **Lifei Wang**, Ehsan Mostaed, Xiaoqing Cao, Guangsheng Huang, Alberto Fabrizi, Franco Bonollo, Chengzhong Chi, Maurizio Vedani. Effects of texture and grain size on mechanical properties of AZ80 magnesium alloys at lower temperatures. Materials & Design, 2016, 89:1–8. **(ESI1%)**
- [4] **Lifei Wang**, Guangsheng Huang, Tingzhuang Han, Maurizio Vedani. The effect of twinning and detwinning on the spring-back and the shift of the neutral layer on AZ31 magnesium alloy. Material Design, 2015, 68: 80–87.
- [5] **Lifei Wang**, Guangsheng Huang, Maurizio Vedani, Fusheng Pan. Effect of strain rate on tension-compression yield asymmetry and the shift of neutral layer during bending in rolled AZ31 alloy. Material letters, 2015, 143: 44–47.
- [6] **Lifei Wang**, Guangsheng Huang, Zhaoyang Shi, Hua Zhang, Paola Bassani, Maurizio Vedani, Fusheng Pan. The Effects of Detwinning on the Mechanical Properties of AZ31 Magnesium Alloy with different Strain Rates at 423K. Material science and Engineering A, 2014, 612: 423–430.
- [7] **Lifei Wang**, Guangsheng Huang, Quan Quan, Paola Bassani, Ehsan Mostaed, Maurizio Vedani, Fusheng Pan. The effect of twinning and detwinning on the mechanical property of AZ31 extruded Magnesium alloy during strain-path changes. Material Design, 2014, 63: 177–184.
- [8] Guangsheng Huang, **Lifei Wang**, HuaZhang, YanxiaWang, ZhaoyangShi, Fusheng Pan. Evolution of neutral layer and microstructure of AZ31 magnesium alloy sheet during bending. Materials Letters, 2013, 98: 47–50.
- [9] **Lifei Wang**, Guangsheng Huang, Hua Zhang, Yanxia Wang, Liang Yin .Evolution of springback and neutral layer of AZ31 magnesium alloy V-bending under warm forming conditions. Journal of Materials Processing Technology, 2013, 213: 844–850.
- [10] **Li-fei Wang**, Guang-sheng Huang, Hong-cheng Li, Hua Zhang. Influence of strain rate on microstructure and formability of AZ31 magnesium alloy sheets. Trans. Nonferrous Met. Soc. China, 2013, 23: 916-922.
- [11] **Lifei Wang**, Guangsheng Huang, Dingkai Liu, Fusheng Pan, Maurizio Vedani. Forming of the battery cell packing in extruded AZ31 magnesium alloys through backward extrusion. Material science and Forum, 2015, 816:492-497.
- [12] Guangsheng Huang, **Lifei Wang**, Fusheng Pan, Mingtu Ma. The formability and hot stamping of magnesium alloy sheets. Advanced Materials Research, 2014, 1063:215-218.
- [13] **Lifei Wang**, Hongcheng Li, Guangsheng Huang, Hua Zhang, Shan Jiang, Bin Liu, Fusheng Pan. The forming of Seat Bidet by AZ31 Magnesium Alloy through Stamping Process. Materials Science Forum, 2014, 788: 103-109.

- [14] Weili Cheng, Yang Bai, **Lifei Wang**, Hongxia Wang, Liping Bian, Hui Yu. Strengthening Effect of Extruded Mg-8Sn-2Zn-2Al Alloy: Influence of Micro and Nano-Size Mg₂Sn Precipitates. *Materials* 10(7):822. DOI: 10.3390/ma10070822.
- [15] Hua Zhang, Yanchun Zhao, Yan Yan, Jianfeng Fan, **Lifei Wang**, Hongbiao Dong, Bingshe Xu. Microstructure evolution and mechanical properties of Mg matrix composites reinforced with Al and nano SiC particles using spark plasma sintering followed by hot extrusion. *Journal of Alloys and Compounds*, 2017, 725:652–664.
- [16] Yan Yan, Zhang Hua, Fan Jianfeng, **Wang Lifei**, Zhang Qiang, Hou Minjian, Dong, Hongbiao, Xu, Bingshe, Improved mechanical properties of Mg matrix composites reinforced with Al and carbon nanotubes fabricated by spark plasma sintering followed by hot extrusion, *Journal of Materials Research*, 2016, 31 (23): 3745~3756
- [17] Dongya Wang, Xiaoqing Cao, **Lifei Wang**, Miao Cao and Wenxian Wang . Influence of hot rolling on the interface microstructure and mechanical properties of explosive welded Mg/Al composite plates.
- [18]Huang Guang-sheng, Wang Yan-xia, **Wang Li-fei**, Ting-zhuang Han, Fu-sheng Pan. Effects of grain size on the shift of neutral layer of AZ31 magnesium alloy under warm condition, *Trans. Nonferrous Met. Soc. China*, 2015, 25:732-737.
- [19] Hua Zhang, Guangsheng Huang, **Lifei Wang**, Hans Jørgen Roven, Zebing Xu and Fusheng Pan. Improved ductility of magnesium alloys by a simple shear process followed by annealing. *Scripta Materialia* 2013, 69: 49–52.
- [20] Hua Zhang, Guangsheng Huang, **Lifei Wang**, Hans Jørgen Roven, Fusheng Pan. Enhanced mechanical properties of AZ31 magnesium alloy sheets processed by three-directional rolling. *Journal of Alloys and Compounds*, 2013, 575: 408–413.
- [21] Hua Zhang, Guangsheng Huang, **Lifei Wang** and Jinhan Li. Improved formability of Mg–3Al–1Zn alloy by pre-stretching and annealing. *Scripta Materialia*, 2012, 67:495–498.
- [22] Hua Zhang, Guangsheng Huang, Jinhan Li and **Lifei Wang**. Influence of Annealing Temperature on Microstructure and Properties of Warm-rolled AZ31 Magnesium Alloy Sheets. *Materials Science Forum*, 2013, 747-748: 352-358.
- [23] Hua Zhang, Guangsheng Huang, Hans Jørgen Roven, **Lifei Wang**, Fusheng Pan. Influence of different rolling routes on the microstructure evolution and properties of AZ31 magnesium alloy sheets. *Materials and Design*, 2013, 50: 667–673.
- [24] Hua Zhang, Guangsheng Huang, Jinhan Li, **Lifei Wang**, Hans Jørgen Roven. Influence of warm pre-stretching on microstructure and properties of AZ31 magnesium alloy. *Journal of Alloys and Compounds*, 2013, 563: 150–154.
- [25]Qingshan Yang, Bin Jiang, Hucheng Pan, Bo Song, Zhongtao Jiang, Jiahong Dai, **Lifei Wang**, Fusheng Pan. Influence of different extrusion processes on mechanical properties of magnesium alloy. *Journal of Magnesium and Alloys*, 2014, 2:220–224.
- [26] Liao Longhuan, ZHAO Dingzang, JIANG Yuanyuan, **WANG Lifei**, HUANG Guangsheng. Investigation on Yield Asymmetry at Room Temperature Between Compression and Tension of AZ31B Alloy Sheet. *Material & Heat Treatment*, 2012, 22:70-72.
- [27] Liu Wenzheng, Wang Dongya, Cao Xiaoqing, **Wang Lifei**, Wang Wenxian. Numerical simulation of the rolling process for Mg/Al explosive welding composite plate with thermo-mechanical coupled model. *Forging & Stamping Technology*, 2016, 10: 166-170.

2. Submitted Publications

- [1] **Lifei Wang**, Bo Song, Weili Cheng, Hua Zhang, Wei Tang. Improved stretch formability of AZ31 magnesium alloy thin sheet by induced grain growth. Materials Science and Engineering A, 2017, *submitted*.
- [2] **Lifei Wang**, Weili Cheng, Hua Zhang, Xiaoqing Cao. Enhanced stretch formability of AZ31 magnesium alloy thin sheet by pre-crossed twinning lamellas induced static recrystallizations. Journal of Materials Processing Technology, 2017, *submitted*.
- [3] **Lifei Wang**, Miao Cao, Weili Cheng, Hua Zhang, Wei Tang, Xiaoqing Cao. Enhanced stretch formability of AZ31 magnesium thin sheet by induced {10-12} tensile twin. The International Journal of Advanced Manufacturing Technology, 2017, *submitted*.

3. Patents

- [1] **Wang lifei**, Zhang Hua, Cao Xiaoqing, Lin Fei, Chi Chengzhong. A continuous extrusion method and the device to weaken base texture of the magnesium alloy sheet/strips, China, No. ZL201510597188.7.
- [2] Huang Guangsheng, **Wang Lifei**, Wang Yanxia, Zhang Hua. A special tool and method for thin sheet material compression. China, No. ZL201310254934.3.
- [3] Huang Guangsheng, Zhang Hua, **Wang Lifei**, Li Jinhan. A method to improve the plasticity of magnesium alloy plate and strip. China, No. ZL201210578085.2.