



## 刘江维

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## 个人简介



姓名: 刘江维

系所: 新能源科学与工程

职称: 副教授

邮箱: liujiangwei1988@163.com jiangweiliu@csu.edu.cn

电话: 18774094435

男, 博士。现在中南大学能源科学与工程学院, 副教授。主要从事新能源开发与利用、金属凝固过程缺陷形成机理和传热传质数值模拟等问题研究。参与美国自然科学基金项目一项, 参与并主持国际纵向课题多项。目前已发表论文近10篇, 其中JCR一区5篇, JCR2区2篇。

## 1. 教育经历

2014/9 – 2016/9, University of Wisconsin-Madison, 材料科学与工程学院, 联合培养博士

2010/09 – 2016/11, 中南大学, 能源科学与工程学院, 博士

2006/09 – 2010/06, 中南大学, 能源科学与工程学院, 学士

## 2. 工作经历

2017/6 – 至今, 中南大学, 新能源科学与工程系, 特聘副教授

## 科研方向

1. 光热太阳能发电技术
2. 金属凝固过程缺陷形成
3. 材料加工过程中的传热传质

## 学术成果

## 1. 主要论文

- [1] Liu J, Kou S. Susceptibility of ternary aluminum alloys to cracking during solidification[J]. Acta Materialia, 2017, 125: 513-523.
- [2] Liu J, Duarte H P, Kou S. Evidence of back diffusion reducing cracking during solidification[J]. Acta Materialia, 2017, 122: 47-59.
- [3] Liu J, Kou S. Crack susceptibility of binary aluminum alloys during solidification[J]. Acta Materialia, 2016, 110: 84-94.
- [4] Liu J, Kou S. Effect of diffusion on susceptibility to cracking during solidification[J]. Acta Materialia, 2015, 100: 359-368.
- [5] Liu J, Rao Z, Liao S, et al. Numerical investigation of weld pool behaviors and ripple formation for a moving GTA welding under pulsed currents[J]. International Journal of Heat and Mass Transfer, 2015, 91: 990-1000.
- [6] Liu J, Rao Z, Liao S, et al. Modeling of transport phenomena and solidification cracking in laser spot bead-on-plate welding of AA6063-T6 alloy. Part I—the mathematical model[J]. The International Journal of Advanced Manufacturing Technology, 2014, 73(9-12): 1705-1716.
- [7] Liu J, Rao Z, Liao S, et al. Modeling of transport phenomena and solidification cracking in laser spot bead-on-plate welding of AA6063-T6 alloy. Part II—simulation results and experimental validation[J]. The International Journal of Advanced Manufacturing Technology, 2014, 74(1-4): 285-296.
- [8] Liu J, Kou S. Crack Susceptibility of Binary Aluminum Alloys: Analytical Equations[C]//Shape Casting: 6th International Symposium 2016. John Wiley & Sons, 2016: 11.
- [9] Rao Z, Liu J, Wang P C, et al. Modeling of cold metal transfer spot welding of AA6061-T6 aluminum alloy and galvanized mild steel[J]. Journal of Manufacturing Science and Engineering, 2014, 136(5): 051001