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## 李宏伟

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### 基本信息 The basic information

姓名: 李宏伟

学院: 材料学院

学历: 博士研究生毕业

学位:

工学博士

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学科:

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## 工作经历 Work Experience

李宏伟 教授, 博导, 教育部“新世纪优秀人才”。国际

期刊IJP、MD、CMS等审稿人。精确塑性成形团队的骨干成员之一。办公室: 公字楼427室

## 教育经历 Education Experience

1998~2002, 河南科技大学, 学士  
2002~2007, 西北工业大学, 硕士&博士  
2007~2009, 西北工业大学, 博士后  
2009~2010, 美国佐治亚理工学院, 博士后  
2010~至今, 西北工业大学, 教师

## 招生信息 Admission Information

## 荣誉获奖 Awards Information

## 科学研究 Scientific Research

### 研究方向:

主要从事难变形材料复杂构件精确塑性成形多尺度建模仿真研究。在塑性成形多尺度建模方法、晶体塑性理论、微观组织形态演化、不均匀变形协调机理与成形极限、难变形材料复杂构件精确塑性成形一体化规律预测等方面取得了重要进展。

## 学术成果 Academic Achievements

主要主持国家自然科学基金2项, 合作主持国家“973”课题1项; 参与国家自然科学基金重点项目、国家“973”课题等的研究工作。研究成果发表在本领域顶级期刊IJP、JMPT等50余篇, SCI收录30余篇。学术成果被美、德、法、加、澳、挪威、波兰等13个国家和地区, MIT、马普所、密西根大学等57所研究机构广泛正面引用100余次, 评价为“做出了原创性贡献”、“取得了重要进展”、“开辟了新颖而有意义的方向”等。多次受邀参加国际重要学术会议, 在Plasticity2013和2012上分别做主题报告和邀请报告。

### 科研获奖:

获得国家自然科学二等奖、陕西省科学技术一等奖。

### 主要代表性论文:

- [1] **Hongwei Li**, Chuan Wu, He Yang. Crystal plasticity modeling of the dynamic recrystallization of two-phase titanium alloys during isothermal processing. International Journal of Plasticity, 2013, 51: 271-291. (IF=4.356)
- [2] **H.W. Li**, H. Yang, Z.C. Sun. A robust integration algorithm for implementing rate dependent crystal plasticity into explicit finite element method. International Journal of Plasticity, 2008, 24(2): 267-288. (IF=4.356)
- [3] **Hongwei Li**, Zhe Ji, He Yang. Quantitative characterization of lamellar and equiaxed alpha phases of ( $\alpha + \beta$ ) titanium alloy using a robust approach for touching features splitting. Materials Characterization, 2013, 76:6-20. (IF=1.880)
- [4] **Hongwei Li**, He Yang. An efficient parallel-operational explicit algorithm for Taylor-type model of rate dependent crystal plasticity. Computational Materials Science, 2012, 54, 255-265. (IF=1.878)
- [5] **Hongwei Li**, Shanshan Chen, He Yang. A new quantitative relation between deformation textures and corresponding mechanical properties of FCC metals. Chinese Science Bulletin, 2014, 59(10): 1049-1056. (IF=1.319)

- [6] **Hongwei Li**, Chuan Wu, He Yang. Crystal Plasticity Modeling of Dynamic Recrystallization of Two-phase Titanium Alloy. The 19<sup>th</sup> International Symposium on Plasticity and Its Current Applications (Plasticity 2013), 2013 Jan, Nassau, Bahamas (**Keynote lecture**)
- [7] C. Wu, H. Yang, **H.W. Li**. Substructure and texture evolution and flow behavior of TA15 titanium alloy compressed in the alpha + beta two-phase field. J.Mater.Process.Technol. 2013, 213(11): 2033-2041.(IF=1.953)
- Zhijun Li, He Yang, **Hongwei Li** et al. A new model for precision control of the radius in in-plane roll-bending of strip considering rolls and stand deflections., 2011, 211: 2072-2084. (IF=1.953)

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2. 一种连续板带等厚面内弯曲成形方法, 2013, DOI:, ISSN:
3. 板带面内/空间弯曲成形多功能辊轧成形试验机, 2016, DOI:, ISSN:
4. 板带面内/空间弯曲成形多功能辊轧成形试验机, 2015, DOI:, ISSN:
5. 一种多功能辊轧成形试验机, 2015, DOI:, ISSN:
6. Evolution of two types of ? ? plates in tri-modal microstructure of TA15 alloy under varying processing conditions, Rare Metals Materials and Engineering Press, 2015, 44(3), 527-531, DOI:, ISSN:1002185X
7. Macro-micro fracture mechanism of TA3 alloy under high-velocity deformation, Rare Metals Materials and Engineering Press, 2015, 44(9), 2105-2108, DOI:, ISSN:1002185X
8. Simulation of cold ring rolling based on rate dependent crystal plasticity, TRANS TECH PUBLICATIONS LTD, 2007, 561-565(PART 3), 1813-1817, DOI:, ISSN:0255-5476
9. Anisotropy in Cold Deep Drawing of CP-Ti Sheet, TRANS TECH PUBLICATIONS LTD, 2012, 560-561, 965-972, DOI:10.4028/www.scientific.net/AMR.560-561.965, ISSN:1022-6680
10. A Polycrystal Plasticity Model and Its Application in Deep Drawing of a FCC Metal, TRANS TECH PUBLICATIONS LTD, 2012, 560-561, 952-958, DOI:10.4028/www.scientific.net/AMR.560-561.952, ISSN:1022-6680
11. Multi-scale Through-process Modeling and Simulation in Precision Forming of Complex Components of Difficult-to-deform Material, AMER INST PHYSICS, 2013, 1532, 150-157, DOI:10.1063/1.4806819, ISSN:0094-243X
12. Deformation characteristics of as-received Haynes230 nickel base superalloy, ELSEVIER SCIENCE SA, 2008, 497(1-2), 283-289, DOI:10.1016/j.msea.2008.07.052, ISSN:0921-5093
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16. Review on cellular automata simulations of microstructure evolution during metal forming process: Grain coarsening, recrystallization and phase transformation, SCIENCE PRESS, 2011, 54(8), 2107-2118, DOI:10.1007/s11431-011-4464-3, ISSN:1674-7321
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19. Static coarsening of titanium alloys in single field by cellular automaton model considering solute drag and anisotropic mobility of grain boundaries, SCIENCE PRESS, 2012, 57(13), 1473-1482, DOI:10.1007/s11434-012-5002-9, ISSN:1001-6538
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