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师资队伍

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首页-师资队伍-教工名录



<b>姓名:</b>	董杰
<b>职称:</b>	教授
<b>博导/硕导:</b>	博导
<b>所属二级机构:</b>	轻合金研究所
<b>通讯地址:</b>	上海市闵行区东川路800号交通大学材料B楼209室
<b>邮编:</b>	200240
<b>E-mail:</b>	jiedong@sjtu.edu.cn
<b>联系电话:</b>	86-21-34203052

从事专业: 轻合金塑性成型及控制

学习与工作经历:

1993.9-1998.7: 东北大学 金属压力加工专业 本科

1998.9-2001.3: 东北大学 材料加工工程专业 硕士

2001.3-2004.3: 东北大学 材料加工工程专业 博士

2004.3-2006.2: 上海交通大学 材料加工工程专业 博士后

2006.4-2007.12 上海交通大学 材料科学与工程学院 讲师

2006.7-2007.6 德国 德累斯顿研究中心 访问学者

2008.1-2014.12 上海交通大学 材料科学与工程学院 副教授

2015.1- 上海交通大学 材料科学与工程学院 教授

研究方向一 1. 变形镁合金和高强铝合金材料

## 2. 轻合金塑性成型及组织性能控制

## 研究方向二

## 研究情况

担任轻合金精密成型国家工程研究中心塑性成型与控制研究室主任, 主要进行高性能变形轻合金材料和塑性成型方面的研究工作。近年来通过稀土合金化和形变热处理成功研发了大尺寸高性能镁合金, 其综合力学性能媲美高强度铝合金, 主要研发了潜流式半连铸、等温热轧、差温拉深和热旋压等镁合金专用成形设备。目前正致力于高性能轻合金的挤压、轧制、锻造、冲压和旋压等塑性变形行为、组织性能控制和计算机仿真等研究工作, 并积极推动大尺寸高性能轻合金变形材在航空航天、军工器械和高速交通工具等领域的广泛应用。在国内外发表论文100余篇, 其中SCI收录60余篇, 担任Journal of Crystal Growth, Materials Science Letter, Journal of Materials Science和Journal of Materials Processing Technology等国际材料学研究期刊的审稿人。主持或作为核心研究人员完成国家军口973计划、国家民口973计划、国家民口863计划、国家科技支撑计划、国家自然科学基金、上海市自然科学基金和国防科工委军品配套项目等20余项。获得国防科技进步二等奖、上海市科技进步一等奖、教育部教育部技术发明二等奖、上海市青年科技启明星、上海市青年科技启明星(跟踪)、上海交通大学优秀青年教师后备人才一等奖、上海交通大学SMC优秀青年教师、上海交通大学烛光奖励计划一等奖等奖励。

## 讲授主要课程

本科生课程: 材料科学与基础、材料加工原理; 研究生课程: 材料加工过程中的传输现象

## 教学研究

## 代表性论文、论著

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4. Li Jin, Jie Dong, Alan A. Luo, Raj K. Mishra, Anil K. Sachdev, Wenyun Wu. Microstructure evolution of Mg-3%Al-1%Zn alloy tube during warm bending. *Journal of Materials Science* 04/2012; 47(8):3801-3807.
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13. J. Dong, Z. F. Li, X. Q. Zeng, C. Lu, W. J. Ding. Intermediate Phase Growth of Mg-Al Diffusion Couple under a Strong Static Magnetic Field. *Materials Science Forum*. 2007, 546-549: 491-494
14. Wen-Cai Liu, Jie Dong, W.J. Ding. Effect of shot peening on surface characteristics and fatigue properties of T5-treated ZK60 alloy. *Materials Transactions*. 2009, 50(4):791-798
15. Wen-Cai Liu, Jie Dong. High cycle fatigue behaviour of as-extruded ZK60 magnesium alloy. *Journal of Materials Science*. 2009, 44(11):2916-2924.

16. Wen-Cai Liu Jie Dong. Fatigue behavior of hot-extruded Mg-10Gd-3Y magnesium alloy. *Journal of Materials Research*. 2009, 25(4):773-783.
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9. L. Jin, J. Dong, R. Wang, L.M. Peng. Effects of hot rolling processing on microstructures and mechanical properties of Mg-3%Al-1%Zn alloy sheet, *Materials Science and Engineering A*, 527(2010)1970-1974
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毕业博士生数 7人

毕业硕士生数 5人

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