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先进制造技术研究院 (/14014/list.htm)	机器人与微系统研究中心 (/14015/list.htm)
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先进材料成形研究所

陈瑶

时间:2016-06-12 来源:机电学院 点击: 1907 次

机电工程学院个人科研情况简表

机电工程学院 先进材料成形研究所

姓名: 陈瑶	性别: 男	出生年月: 1970.04	
学历: 研究生 学位: 博士	职称 / 导师类别: 博导/硕导		
毕业学校: 北京航空航天大学	学科专业: 材料加工工程		
主要研究方向	激光增材制造生物降解骨组织支架及性能 高温耐磨涂层、生物涂层设计及等离子喷涂制备 一维/二维碳纳米材料增强金属基/陶瓷基复合材料		
科研工作经历	<p>2010年1月-至今: 苏州大学 机电工程学院, 特聘教授, 博士生导师</p> <p>2008年8月-2010年8月;日本 大阪大学 接合科学研究所, JSPS (日本学术振兴会) 特别研究员</p> <p>2006年4月-2008年7月: 美国 佛罗里达国际大学 机械与材料工程系, 博士后</p> <p>2004年11月-2006年3月: 中国科学院力学研究所, 博士后</p> <p>1999年9月-2004年10月: 北京航空航天大学 材料科学与工程学院, 工学博士</p>		
学术成果 (论文、著作、获	<p>作为项目负责人, 主持/完成装备预研国防基金、国家自然科学基金面上项目 (No.51471113、51275326、50471088)、江苏省科技支撑 (工业) 项目 (BE2013062)、江苏省自然科学基金项目 (BK2010212)、日本学术振兴会(JSPS)资助项目(P0878)及企业委托项目20余项; 参与完成美国NASA资助项目、美国Office of Naval Research资助项目、美国NSF资助项目、中国科学院“知识创新工程”重大项目 (KGXX-11) 等项目。</p>		

奖、专利等情
况)

研究成果在ACS Applied Materials & Interfaces、Carbon、Acta Biomaterialia、Acta Materialia、Scripta Materialia、Applied Physics Letters、金属学报等国内外学术刊物上发表论文100余篇(其中SCI收录90篇, Web of Science 检索他引次数2000余次, h-index 27), 出版英文章节著作一部, 获授权发明专利11项。部分成果获2015年教育部自然科学奖一等奖(排名2)、全国优秀博士论文提名奖(2005年)。2012入选“2010-2011年度苏州市高等院校、科研院所紧缺高层次人才引进资助计划”; 2010年入选江苏省第七批“六大人才高峰行动计划”。

目前为国家自然科学科学奖、国家自然科学基金、北京市自然科学基金、浙江省自然科学基金、湖南省自然科学基金等项目评审专家, 并为Acta Biomaterialia、Carbon、Applied Physics Letters、Scientific Report等20余家学术刊物审稿人。

代表性论文:

Ying Song, Wiewei Liu, Yufeng Sun, Shaokang Guan, Yao Chen*. Microstructural evolution and mechanical properties of graphene oxide reinforced Ti6Al4V matrix composites fabricated using spark plasma sintering. *Nanomaterials*, 2021;11:1440. (SCI IF 4.324)

Yao Chen*, Jia Ren, Yufeng Sun, Weiwei Liu, Dong Zhao, Xiaolong Lu, Shaokang Guan. Efficacy of graphene nanosheets on the plasma sprayed hydroxyapatite coating: improved strength, toughness and in-vitro bioperformance with osteoblast. *Materials & Design*, 2021;203:109585. (SCI IF 6.289)

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Yao Chen*, Ying Song, Guangyu He, Yufeng Sun, Weiwei Liu, Shaokang Guan. BN nanosheet reinforced Ni3Al compositewith improved tribological behavior under isooctane-lubricated sliding condition. *Intermetallics*, 2020;126:106936. (SCI IF=3.398)

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Y. Chen, H.M. Wang. Microstructure and wear resistance of laser melted TiC reinforced nickel aluminide dual-phase matrix in situ composites. *Intermetallics*, 2006;14(3):325-331. (SCI IF=3.398)

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Y. Chen*, C.H. Gan, T.H. Zhang, G. Yu, P.C. Bai, A. Kaplon. Laser surface alloyed carbon-nanotube reinforced hydroxyapatite composite coatings. *Applied Physics Letters*, 2005; 86: Article No.251905. (SCI IF=3.597)

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Y. Chen, C.H. Gan, L.X. Wang, G. Yu, A. Kaplon. Laser surface modified ductile iron by pulsed laser beam with two-dimensional array distribution. *Applied Surface Science*, 2005;245:316-321. (SCI IF=6.182)

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Y. Chen, H.M. Wang. Growth morphology and mechanism of TiC carbide in the laser surface alloying coating on the substrate of TiAl intermetallics. *Journal of Alloys and Compounds*, 2003; 351: 304-308. (SCI IF=4.650)

Y. Chen, H.M. Wang. Growth morphology and mechanism of primary TiC in laser clad TiC/FeAl composite coating. *Materials Letters*, 2003;57: 1233-1238. (SCI IF=3.204)

Y. Chen, H.M. Wang. Microstructure of laser clad TiC/NiAl-Ni₃(Al,Ti,C) wear resistant intermetallic matrix composite coating. Materials Letters, 2003;57: 2029-2036. (SCI IF=3.204)

获奖情况:

2015年获教育部“高等学校自然科学奖”一等奖(关键摩擦副机械零部件激光熔覆特种耐磨涂层及磨损特性研究,第二获奖人);

2012入选“2010-2011年度苏州市高等院校、科研院所紧缺高层次人才引进资助计划”;

2010年入选江苏省第七批“六大人才高峰行动计划”;

2008年获日本科学振兴会(JSPS)“外国人特别研究员”(P0878);

2007年获美国自然科学基金委员会“NSF Fellowship Award for Inspiring the Coalescence of Fundamental and Application Specific Functional Nanomaterial Development”;

2006年获“全国优秀博士论文提名奖”

在研项目	装备预研国防基金等项目
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2021年5月27日