

[首页](#)
[实验室概况](#)
[科学研究](#)
[研究人员](#)
[人才培养](#)
[交流合作](#)
[校友天地](#)
[开放课题](#)
[资料下载](#)

当前位置: [首页](#) [科学研究](#) [研究成果](#) [发表文章](#)

## 科学研究

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研究成果

重要获奖

授权专利

[发表文章](#)

典型成果

研究条件

### 2011年学术论文

发布人: 系统管理员 发布时间: 2012-01-17 浏览次数:

序号	论文名称	作者	刊物名称	年,卷,期,页	检索
1	In situ synthesis of TiB whisker reinforcements in the joints of Al <sub>2</sub> O <sub>3</sub> /TC4 during brazing	Minxuan Yang, Tiesong Lin, Peng He, Yudong Huang	Materials Science and Engineering A	2011, 528: 3520-3525	SCI
2	Deformation behavior of semi-solid Zn-Al alloy filler metal during compression	Lei Shi, Jiuchun Yan, Bo Peng, Yanfei Han	Materials Science and Engineering A	2011,528: 7084-7092	SCI
3	Interfacial microstructure and joining properties of TiAl/Si <sub>3</sub> N <sub>4</sub> brazed joints	X.G. Song, J. Cao, C. Li, J.C. Feng	Materials Science and Engineering: A	2011, 528: 7030-7035	SCI
4	Effect of Si <sub>3</sub> N <sub>4</sub> -particles addition in Ag-Cu-Ti filler alloy on Si <sub>3</sub> N <sub>4</sub> /TiAl brazed joint	X.G. Song, J. Cao, Y.F. Wang, J.C. Feng	Materials Science and Engineering: A	2011, 528: 5135-5140	SCI
5	Full density consolidation of pure aluminium powders by cold hydro-mechanical pressing	X.S.Weil, B.Vekshin, V.Kraposhin, Y.J. Huang, J. Shen, K. Xia	Materials Science and Engineering A	2011, 528: 5784-5789	SCI
6	Influence of strain-rate on compressive-deformation behavior of a Zr-Cu-Ni-Al bulk metallic glass at cryogenic temperature	W.Zheng, Y.J. Huang, J. Shen	Materials Science and Engineering A	2011, 528: 6855-6859	SCI
7	Hypervelocity impact on Zr <sub>51</sub> Ti <sub>5</sub> Ni <sub>10</sub> Cu <sub>25</sub> Al <sub>9</sub> bulk metallic glass	W. Zheng, Y.J. Huang, B.J. Pang, J. Shen	Materials Science and Engineering A	2011, 529: 352- 360	SCI
8	Effects of bump size on deformation and fracture behavior of Sn <sub>3.0</sub> Ag <sub>0.5</sub> Cu/Cu solder joints during shear testing	Yanhong Tian, Chunjin Hang, Chunqing Wang	Materials Science and Engineering A	2011, 529: 468- 478	SCI
9	Effect of in situ synthesized TiB whisker on microstructure and mechanical properties of carbon-carbon composite and TiBw/Ti <sub>6</sub> Al <sub>4</sub> V composite joint	TiesongLin, Minxuan Yang, Peng He, Chao Huang, Feng Pan, Yudong Huang	Materials & Design	2011, 32: 4553-4558	SCI
	Ultrasonic assisted fabrication of particle	Jiuchun Yan, Zhiwu Xu,		2011, 32	

10	reinforced bonds joining aluminum metal matrix composites	Lei Shi, Xing Ma, Shiqin Yang	Materials and Design	(1): 343 - 347	SCI
11	Microstructure and Mechanical Properties as a Function of Rotation Speed in Underwater Friction Stir Welded Aluminum Alloy Joints	H. J. Zhang, H. J. Liu, L. Yu	Materials and Design	2011, 32 (9): 4402-4407	SCI
12	Effect of welding speed on microstructures and mechanical properties of underwater friction stir welded 2219 aluminum alloy	H. J. Liu, H. J. Zhang, L. Yu	Materials and Design	2011, 32 (3): 1548-1553	SCI
13	A comparative study of laser-arc double-sided welding and double-sided arc welding of 6 mm 5A06 aluminium alloy	Y.B. Zhao, Z.L. Lei, Y.B. Chen, W. Tao	Materials and Design	2011,32(4): 2165-2171	SCI
14	Brazing of Al <sub>2</sub> O <sub>3</sub> to Ti-6Al-4V alloy with in situ synthesized TiB-whisker-reinforced active brazing alloy	Minxuan Yang, Tiesong Lin, Peng He, Yudong Huang	Ceramic international	2011, 37: 3029-3035	SCI
15	Improving the Strength of Brazed Joints with in situ Synthesized TiB Whiskers	Peng He, Minxuan Yang, Tiesong Lin, Zhen Jiao	Journal of Alloys and Compounds	2011, 509: L289-L292	SCI
16	Effect of 0.5 wt.% Hydrogen Addition on Microstructural Evolution of Ti-6Al-4V Alloy in the Friction Stir Welding and Post-weld Dehydrogenation Process	L. Zhou, H. J. Liu	Materials Characterization	2011, 62 (11): 1036-1041	SCI
17	Microstructural evolution and mechanical properties of the joint of TiAl alloys and C/SiC composites vacuum brazed with Ag-Cu filler metal	Zhenwen Yang, Peng He, Lixia Zhang, Jicai Feng	Materials characterization	2011,62 (10): 825-832	SCI
18	Effect of Grain Size Refinement and Precipitation Reactions on Strengthening in Friction Stir Processed Al-Cu Alloys	Xiuli Feng, Huijie Liu, Sudarsanam, Suresh Babu	Scripta Materialia	2011, 65 (12): 1057-1060	SCI
19	Combustion synthesis of TiAl intermetallics and their simultaneous joining to carbon/carbon composites	J. Cao, H.Q. Wang, J.L. Qi, X.C. Lin, C. Feng	Scripta Materialia	2011, 65 (12): 261-264	SCI
20	Bonding of immiscible Mg and Fe via nanoscale Fe <sub>2</sub> Al <sub>5</sub> transition layer	L.Liu, L.Xiao, J.Feng, L.Li, S.Esmaeili, Y.Zhou	Scripta Materialia	2011,65: 982-985	SCI
21	Crack formation and control upon the electron beam welding of TiAl-based alloys	Chen Guoqing, Zhang Binggang, Liu Wei,	Intermetallics	2011,19: 1857-1863	SCI

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22	Mechanical milling of Ti-Ni-Si filler metal for brazing TiAl intermetallics	J.Cao, P. He, M. Wang	Intermetallics	2011,19 (7) : 855-859	SCI
23	An undercutting model of atomic oxygen for multilayer silica/alumina films fabricated by plasma immersion implantation and deposition on polyimide	Y. X. Huang, X. B. Tian, S. X. Lv, S. Q. Yang, R. K. Y. Fu, P. K. Chu, J. S. Leng, Y. Li	Applied Surface Science	2011,257: 9158-9163	SCI
24	Structure and hardness of a-C:H films prepared by middle frequency plasma chemical vapor deposition	Guo Guangwei, Tang uangez, Wang Yun, Ma, Xinxin, Sun Mingren, Wang Liqin, Yukimura Ken	Applied Surface Science	2011,257 (10): 4738- 4742	SCI
25	Influence of high temperature annealing on the structure hardness and tribological properties of diamond-like carbon and TiAlSiCN nanocomposite coatings	Z.W.Xie, L.P.Wang, X.F.Wang, L .Huang	Applied Surface Science	2011, 258: 1206 1211	SCI
26	Microstructure and mechanical properties of CrN films fabricated by high power pulsed magnetron discharge plasma immersion ion implantation and deposition	Zhongzhen Wu, Xiubo Tian, Wang Zeming, Gong Chunzhi, Yang, Shiqin, Cher Tan MingChu, Paul K.Chu	Applied Surface Science	2011,258 (1) : 242- 246	SCI
27	Relatively low temperature synthesis of grapheme by radio frequency plasma enhanced chemical vapor deposition	J.L. Qi, W.T. Zheng, X.H. Zheng	Applied Surface Science	2011, 257: 6531-6534	SCI
28	Microstructural Evolution and Its Effect on Mechanical Performance of Joint in Underwater Friction Stir Welded 2219-T6 Aluminum Alloy	H. J. Zhang, H. J. Liu, L. Yu	Science and Technology of Welding and Joining	2011, 16 (5): 459-464	SCI
29	Microstructural characterization and mechanical properties of friction stir welded joints of aluminum alloy to copper	H. J. Liu, J. J. Shen, L. Zhou, Y. Q. Zhao	Science and Technology of Welding and Joining	2011, 16 (1): 92-99	SCI I
30	New Technique of Filling Friction Stir Welding	Y. X. Huang, B. Han, Y. Tian, H. J. Liu, S. X. Lu	Science and Technology of Welding and Joining	2011, 16 (6): 497-501	SCI
	Brazing C/SiC composites	Y. Z. Liu, L. X. Zhang,	Science and	2011 , 16	

31	and Nb with TiNiNb active filler metal	C. B. Liu, Z. W. Yang, H. W. Li, J. C. Feng	Technology of Welding and Joining	(2): 193-197	SCI
32	Microstructure and mechanical properties of ZrB <sub>2</sub> -SiC ultrahigh temperature ceramic composites joint using TiZrNiCu filler metal	Z.R.Li, Z.Z.Wang, G.D.Wu, J.C.Feng	Science and Technology of Welding and Joining	2011,16(8): 697-700	SCI
33	Metal transfer characteristics of GMAW with strip electrode	S.M. Zheng, H.M. Gao, X. Liu	Science and Technology of Welding and Joining	2011,16(7): 586-591	SCI EI
34	Corrosion Behavior of Fe <sub>41</sub> Co <sub>7</sub> Cr <sub>15</sub> Mo <sub>14</sub> C <sub>15</sub> B <sub>6</sub> Y <sub>2</sub> Bulk Metallic Glass in Sulfuric Acid Solutions	H.B. Fan, W. Zheng, G.Y. Wang, P.K. Liaw, J. Shen	Metallurgic and Materials Transactions A	2011, 42: 1524-1533	SCI
35	Influence of Strain Rate on Compressive Deformation Behavior of a Zr-Cu-Ni-Al Bulk Metallic Glass at Room Temperature	W. Zheng, Y.J. Huang, G.Y. Wang, P.K. Liaw, J. Shen	Metallurgical and Materials Transactions A	2011, 42: 1491-1498	SCI
36	Time resolved characterization of a free-burning argon arc after ignition by optical emission spectroscopy	Shuiliang Ma, Hongming Gao, Lin Wu	Journal of Applied Physics	2011,110: 026102-1-3	SCI
37	The electronic structure origin for ultrahigh glass-forming ability of the FeCoCrMoCBY alloy system	Yunzhuo Lu, Yongjiang Huang, Jun Shen	Journal of Applied Physics	2011,110: 033720-1-4	SCI
38	Modified Fowler-Milne method for the spectroscopic determination of thermal plasma temperature without the measurement of continuum radiation	Shuiliang Ma, Hongming Gao, Lin Wu	Review of Scientific Instruments	2011, 82 (3): 013104-1-8	SCI
39	High voltage pulser with a fast fall-time for plasma immersion ion implantation	Zhu, Zongtao, Gong, Chunzhi, Tian, Xiubo, Yang, Shiqin, Ricky K. Y., Fu et al	Review of Scientific Instruments	2011, 82 (4): 045102-1-4	SCI
40	Novel plasma immersion ion implantation and deposition hardware and technique based on high power pulsed magnetron discharge	Wu hongzhen, Tian Xiubo, Shi Jingwei, Wang Zeming, Gong Chunzhi, Yang Shiqin, Chu Paul K.	Review of Scientific Instruments	2011, 82 (3): 033511-1-5	SCI
41	Molecular dynamics simulation of the effect of surface roughness and pore on linear friction welding between Ni and Al	Jiao zhen, Song Changbao, Lin Tiesong, He Peng	Computational Materials Science	2011, 50 (12): 3385- 3389	SCI

42	Interfacial intermetallic compounds of ultrasonic-assisted brazed joints between dissimilar alloys of Ti-6Al-4V and Al-4Cu-1Mg	Zhipeng Ma, Weiwei Zhao, Jiuchun Yan, Dacheng Li.	Ultrasonic Sonochemical	2011,18: 1062-1067	SCI
43	Microstructure and tribological properties of diamond-like carbon and TiAlSiCN nanocomposite coatings	Z.W.Xie, L.P.Wang, F.Wang, L.Huang	Surface & Coatings Technology	2011, 206: 1293-1298	SCI
44	Spectroscopic measurement of temperatures in pulsed TIG welding arcs	Shuiliang Ma, Hongming Gao, Senmu Zheng, Lin Wu	Journal of Physics D-Applied Physics	2011, 44 : 405202-1-12	SCI
45	Reconstruction of emission coefficients for a non-axisymmetric coupling arc by algebraic reconstruction technique	Guanjun Zhang, Jun Xiong, Hongming Gao, Lin Wu	Journal of Quantitative Spectroscopy & Radiative Transfer	2011,112: 92-99	SCI
46	A 3D dynamic analysis of thermal behavior during single-pass multi-layer weld-based rapid prototyping	Huihui Zhao, Guangjun Zhang, Ziqiang Yin, Lin Wu	Journal of Materials Process Technology	2011, 211 (3): 488-495	SCI
47	Joining mechanism of Ti/Al dissimilar alloys during laser welding-brazing process	Shuhai Chen, Liqun Li, Yanbin Chen, Jihua Huang	Journal of Alloys and Compounds	2011,509 (3): 891-898	SCI
48	Shear stability of metallic glasses	F.F. Wu, W. Zheng, S.D. Wu, Z.F. Zhang, J. Shen	International Journal of Plasticity	2011 ,27 (1): 560-575	SCI
49	Long-range effect of ion irradiation on Cu surface segregation in a Cu-Ni system	Zhang Li, Tang Guangze, Ma Xinxin	Physics Letters A	2011,375 (19): 1976-1979	SCI
50	On the Atomic Anisotropy of Thermal Expansion in Bulk Metallic Glass	Dongdong Qu, Klaus-Dieter Liss, Kun Yan, Mark Reid, Jonathan D. Almer, Yanbo Wang, Xiaozhou Liao, Jun Shen	Advanced Engineering Materials	2011, 13: 861-864	SCI
51	Uniformity enhancement of incident dose on concave surface in plasma immersion ion implantation assisted by beam-line ion source	Zhu Zongtao, Tian Xiubo, Wang Zhi-Jian, Gong Chunzhi, Yang Shiqin, Ricky K. Y., Chu Paul K	Surface & Coatings Technology	2011,206 (7): 2021-2024	SCI

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