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## 科学研究

研究方向

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典型成果

研究条件

### 2006年学术论文

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序号	论文名称	作者	刊物名称	年,卷,期,页	检索
1	Interface structure and mechanical properties of the brazed joint of TiC cermet and steel	Feng J.C., Zhang L.X.	Journal of The European Ceramic Society	2006,26 (7): 1287-1292	SCI
2	Joining of TiAl intermetallic by self-propagating high-temperature synthesis	Cao J., Feng J.C., Li Z.R.	Journal of Material and Science	2006.41: 4720-4724	SCI
3	Reactive wetting of solders on Cu and Cu <sub>6</sub> Sn <sub>5</sub> /Cu <sub>3</sub> Sn/Cu substrates using wetting balance	Hongqin Wang, Feng Gao, Xin Ma, Yiyu Qian	Scripta Materialia	2006,55: 823-826	SCI
4	Sn concentration on the reactive wetting of high-Pb solder on Cu substrate	Hongqin Wang, Feng Gao, Xin Ma, Yiyu Qian	Materials Chemistry and Physics	2006, 99:202-205	SCI
5	Reactive wetting of Sn <sub>0.7</sub> Cu <sub>x</sub> Zn lead-free solders on Cu substrate	Hongqin Wang, Feng Gao, Xin Ma, Yiyu Qian	Journal of Alloys and Compounds	2006	SCI
6	Interfacial microstructure and strength of the dissimilar joint Ti3Al/TC4 welded by the electron beam	Hongtao Zhang , Peng He, Jicai Feng, Huiqiang Wu	Materials Science And Engineering A	2006,425(1-2): 255-259	SCI
7	Microstructure and kinetics of induction brazing TiAl-based intermetallics to steel 35CrMo using AgCuTi filler metal	P. He, J. C, Feng, W.Xu	Materials Science And Engineering A	2006,418 (1-2): 53-60	SCI
8	Mechanical property of induction brazing TiAl-based intermetallics to steel 35CrMo using AgCuTi filler metal	P. He, J. C, Feng, W.Xu	Materials Science And Engineering A	2006,418 (1-2): 45-52	SCI
9	Interface structure and mechanical properties of the TiAl/42CrMo steel joint vacuum brazed with Ag-Cu/Ti/Ag-Cu filler metal	Yulong Li, Peng He, Jicai Feng	Scripta Materialia	2006,55 (2): 171-174	SCI
10	The characteristic of twin-electrode TIG coupling arc	Xuesong Leng, Guangjun	Journal of Physics D-	2006,39(6):	SCI

	pressure	Zhang, Lin Wu	Applied Physics	1120-1126	
11	Numerical simulation of fluid flow and temperature field in keyhole double-sided arc welding process on stainless steel	Dong H.G., Gao H.M., Wu L.	J. for Numerical Methods in Engineering	2006, Vol 65 (10): 1673-1687	SCI
12	The bond strength of Al-Si coating on mild steel by kinetic spraying deposition	Jingwei Wu, Jianguo Yang, Hongyuan Fang	Applied Surface Science	2006,252 (22): 7809-7814	SCI EI
13	High speed impact behaviors of Al alloy particle onto mild steel substrate during kinetic deposition	Jingwei Wu, Hongyuan Fang	Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing	2006,417(1-2): 114-119	SCI
14	The rebound phenomenon in kinetic spraying deposition	Jingwei Wu, Hongyuan Fang	Scripta Materialia	2006,54(4): 665-669	SCI
15	Critical velocities for high speed particle deposition in kinetic spraying	Jingwei Wu, Hongyuan Fang	Mate. Trans.	2006, 47 (7): 1723-1727	SCI
16	Distribution features of small defects in precision weldments of titanium alloy	T. GANG, D H Shi, Y Yuan, S Y Yang	Institute of Physics Publishing	2006, 48:1341-1345	SCI
17	Arc sprayed erosion-resistant coating for carbon fiber reinforced polymer matrix composite substrates	Aiguo Liu, Mianhuan Guo, Minhai Zhao	Surface & Coating Technology	2006, 200: 3073-3077	SCI
18	WC reinforced surface metal matrix composite produced by plasma melt injection	MinhaiZhao, Aiguo Liu, Mianhuan Guo, Dejian Liu	Surface & Coating Technology	2006, 201: 1655-1659	SCI
19	Influence of bond coat on shear adhesion strength of erosion and thermal resistant coating for carbon fiber reinforced thermosetting polyimide	Aiguo Liu, Mianhuan Guo, Jiashuang Gao, Minhai Zhao	Surface & Coating Technology	2006, 201: 2696-2700	SCI
20	Effect of Zigzag Line on the Mechanical Properties of Friction Stir Welded Joints of an Al-Cu Alloy	H. J. Liu, Y. C. Chen, J. C. Feng	Scripta Materialia	2006, 55 (3): 231-234	SCI EI
21	Friction Stir Welding Characteristics of Different Heat-Treated-State 2219 Aluminum Alloy Plates	Yingchun Chen, Huijie Liu, Jicai Feng	Materials Science and Engineering A	2006, A420 (1-2): 21-25	SCI EI
22	Brazing temperature and time effects on the mechanical properties of TiC cermet/Ag-Cu-Zn/steel joints	Zhang LX, Feng JC, He P.	Materials Science and Engineering A	2006, 428 (1-2): 24-33	SCI
23	“Oxygen ♦ Plasma Ion Implantation of Biomedical Titanium Alloy	X. B. Tian, C. Z. Gong, S. Q. Yang	IEEE Transactions on Plasma Science	2006,34 (4): 1235 ♦ 1240	SCI

24	Interdiffusion of Al-Ni system enhanced by ultrasonic vibration at ambient temperature	Jihongjun, M.Y.L., WangChunqing	Ultrasonics	2006,45: 61-65 SCI	
25	Micro Mechanical Behaviors of Solder Alloys of 100Sn, 63Sn37Pb and 96.5Sn3.5Ag under In-situ SEM/TEM Tensile Testing	Yiag Ding, ChunQing Wang	Smart Processing Technology, High Temperature Society of Japan	2006, 1:155-161	SCI
26	Effect of Cu diffusion through Ni on the interfacial reactions of Sn3.5Ag0.75Cu and SnPb solders with Au/Ni/Cu substrate during aging	H.T.Chen, C.Q.Wang, M.Y.Li	Materials Letters	2006,60: 1669-1672	SCI
27	In-situ observation on microfracture behavior ahead of the crack tip in 63Sn37Pb solder alloy	Yiag Ding, ChunQing Wang, Yanhong Tian	Metallurgical and Materials Transactions A	2006, 37A : 1017-1025	SCI
28	In situ TEM observation of microcrack nucleation and propagation in pure tin solder	Yiag Ding, ChunQing Wang, LI MingYu	Materials Science and Engineering B	2006,127: 62-69	SCI
29	DLC Film Fabrication on the Inner Surface of a Cylinder by Carbon Ion Implantation	Yuhang Wang, Lngping Wang, Xiaofeng Wang	IEEE Transactions on Plasma Science	2006, 34(4): 1116~1120	SCI
30	Theoretical Study on Dose Distribution of the Ball Bearing Treated by Plasma Immersion Ion Implantation	Yuhang Wang, Lngping Wang, Xiaofeng Wang	IEEE Transactions on Plasma Science	2006, 34(4): 1121~1126	SCI
31	Effects of the Electric Field on the Crystallization Behavior in Field-aided Lateral Crystallization Process	Yuhang Wang, Lngping Wang, Xiaofeng Wang	Thin solid films	2006, 515: 2507~2512	SCI
32	Interface structure changes during vibration liquid phase bonding of SiCp/A356 composites in air	Xu HB, Yan JC, Yang SQ	Composites Part A: Applied Science and Manufacture	2006, 37(9): 1458-1463	SCI
33	Defects formation procedure and mathematic model for defect free friction stir welding of magnesium alloy	H. Zhang, S.B.Lin, L.Wu, J.C.Feng	Materials and Design	2006,27(9): 805-809	SCI
34	Modeling the Trans-Varestraint Test with finite element method	Yanhong Wei, Zhibo Dong	Computational materials science	2006, 35: 84-91	SCI
35	Predicting weld solidification cracks in multipass welds of SUS310 stainless steel	Zhibo Dong, Yanhong Wei	Computational materials science	2006, 38, 459-466	SCI

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