

张学习

工学博士

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主要研究方向

- 1、金属基复合材料
- 2、功能泡沫材料

社会兼职

黑龙江省复合材料学会理事

中国材料研究学会会员

主要学术成果

1. X.X. Zhang, C. Witherspoon, P. Müllner, D.C. Dunand. Effect of Pore Architecture on Magnetic-field-Induced Strain in Polycrystalline Ni-Mn-Ga. *Acta Materialia*, 2011, 59, 2229-2239
2. M. Chmielus, X.X. Zhang, C. Witherspoon, D.C. Dunand, P. Müllner. Giant Magnetic-Field-Induced Strains in Polycrystalline Ni-Mn-Ga foams. *Nature Materials*, 2009, 8(10), 863-866
3. Peter Müllner, Xuexi Zhang, Yuttanant Boonyongmaneerat, Cassie Witherspoon, Markus Chmielus, David C. Dunand. Recent Developments in Ni-Mn-Ga Foam Research. *Materials Science Forum*, 2010, 635, 119-124
4. Ying Chen, Xuexi Zhang, David C. Dunand, Christopher A. Schuh. Shape Memory and Superelasticity in Polycrystalline Cu-Al-Ni Microwires. *Applied Physics Letters*, 2009, 95, 171906-1~171906-3
5. XX Zhang, CF Deng, YB Shen, DZ Wang, L Geng. Mechanical Properties of Al₂O₃/Al Hybrid Composites Made by Squeeze Cast Technique. *Materials Letters*, 2007, 61 (16): 3504-3506
6. X.X. Zhang, C.F. Deng, R. Xu, D.Z. Wang. Oxidation Resistance of Multi-Walled Carbon Nanotubes Purified with Sulfuric and Nitric Acids. *Journal of Materials Science*, 2007, 40, 8337-8340
7. Xuexi Zhang, Baojiang Cui, Dezun Wang. Mechanical Property Dispersion of the SiCw/Al Composites. *Rare Metal Materials and Engineering*, 2007, 36 (Special Issue 3), 146-149 (in Chinese)
8. C.F. Deng, X.X. Zhang, D.Z. Wang. Calorimetric Study of Carbon Nanotubes and Aluminum. *Materials Letters*, 2007, 61(14-15), 3221-3223
9. C.F. Deng, X.X. Zhang, D.Z. Wang. Damping Characteristics of Carbon Nanotubes Reinforced Aluminum Composite. *Materials Letters*, 2007, 61(14-15), 3229-3231
10. Chunfeng Deng, Xuexi Zhang, Dezu Wang. Chemical Stability of Carbon Nanotubes in the 2024Al Matrix. *Materials Letters*. 2007, 61(3), 904-907
11. Chunfeng Deng, Xuexi Zhang, Dezun Wang, Qiang Lin, Aibin Li. Preparation and Characterization of Carbon Nanotubes/Aluminum Matrix Composites. *Materials Letters*, 2007, 61(8-9), 1725-1728
12. C.F. Deng, D.Z. Wang, X.X. Zhang, A.B. Li. Processing And Properties of Carbon Nanotubes Reinforced Aluminum Composites. *Materials Science and Engineering* 2007, 444A(1-2), 138-145
13. Xue-xi Zhang, Li Yang, Chun-feng Deng, De-zun Wang. Multi-Wall Carbon Nanotubes Reinforced Aluminum Composites Synthesized by Hot Press Sintering and Squeeze Casting. *Transactions of Nonferrous Metals Society of China*. 2006 16(Sp. Iss. 3), S1465-S1469
14. XX Zhang, CF Deng, DZ Wang, et al. Synthesis And Thermal Stability of Multiwall Carbon Nanotubes Reinforced Aluminum Metal Matrix Composites. *Transactions of Nonferrous Metals Society of China*. 2005, 15(Sp. Iss. 2), 240-244
15. 张学习, 耿林, 王德尊. 挤压铸造法制备碳纳米管增强铝合金复合材料. 专利号: ZL201010300511.7
16. 张学习, 于天明, 钱明芳, 耿林. 一种在多壁碳纳米管表面形成连续和非连续金属镍层的化学工艺. 申请号: 200910309806.8
17. 张学习, 钱明芳, 于天明, 李爱兰, 耿林. 一种碳纳米管和硼酸铝晶须混杂增强铝基复合材料的制备方法. 申请号: 200910309838.8
18. 张学习, 耿林, 王德尊. 提高晶须增强纯铝基复合材料强度和塑性的方法. 申请号: 200910311604.7
19. 张学习, 韦昭男, 王德尊, 耿林. 多壁碳纳米管表面镀覆均匀纳米镍颗粒的无钯化学镀工艺. 申请号 201010122779.6