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主要研究方向

纳米晶合金，钛合金及钛基复合材料，TiAl 金属间化合物，粉末冶金，机械合金化，亚稳材料

社会兼职

美国材料研究学会 会员

《沈阳工业大学学报》审稿人

主要学术成果

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3. L. L. Ye, Z. G. Liu, M. X. Quan and Z. Q. Hu Different Reaction Mechanisms during Alloying Ti50C50 and Ti33B67 J. Appl. Phys., 80, 1910-1912(1996).
4. Z. G. Liu, J. T. Guo, L. Z. Zhou, Z. Q. Hu and M. Umemoto Mechanical Alloying Synthesis and Characterization of Ternary Ni-Al-Fe Alloys J. Mater. Sci., 32, 4857-4864(1997).
5. Z. G. Liu, M. Umemoto, S. Hirose and H. Kanekiyo Spark Plasma Sintering of Nd-Fe-B Magnetic Alloy J. Mater. Res., 14, 2540-2547(1999).
6. Z. G. Liu, H. Ohi, K. Masuyama, K. Tsuchiya and M. Umemoto Mechanically Driven Phase Transformation of Fullerene J. Phys. Chem. Solids, 61, 1119-1122(2000).
7. Z. G. Liu, X. J. Hao, K. Masuyama, K. Tsuchiya, M. Umemoto and S. M. Hao Nanocrystal formation in a ball milled eutectoid steel Scripta Mater., 44, 1775-1779(2001).
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9. Z. G. Liu, H. J. Fecht and M. Umemoto Microstructural evolution and nanocrystal formation during deformation of Fe-C alloys Mater. Sci. Eng. A, 375-377, 839-843(2004).
10. The world of bulk metallic glasses and their composites, eds. C. Fan and C. T. Liu, Chapter 13.