



当前位置: [首页](#) > [师资队伍](#) > [博士生导师](#) > 正文

江忠浩

发布日期: 2017-10-18 作者: 编辑: 点击: 1765

基本情况

姓名: 江忠浩

性别: 男

职称: 教授

所在系别: 金属材料工程系

是否博导: 是

最高学历：研究生

最高学位：博士

电话：18686693805, 0431-85695875(O), 85697752(H)

Email: jzh@jlu.edu.cn



详细情况

所在学科专业:	材料科学
所研究方向:	纳米材料的制备, 材料力学性能, 材料表面改性
讲授课程:	本科生课程: 材料力学性质, 专业英语 研究生课程: 低维材料, 力学性质的微观理论
教育经历:	1982.8: 学士学位, 吉林工业大学金属材料专业学 1989.6: 硕士学位, 吉林工业大学金属材料专业学 1994.5: 博士学位, 中国科学院长春光学精密机械研究所机械制造专业 1995.1-1997.12: 博士后, 哈尔滨工业大学材料科学与工程学院
工作经历:	1991.6: 讲师, 吉林大学材料科学与工程系 1995.9: 教授(破格晋升), 吉林大学材料科学与工程学院 2000.9: 博士生导师, 吉林大学材料科学与工程学院 1999.3-2000.4: 访问学者, 澳大利亚Wollongong大学数学力学系
科研项目:	运行项目: 纳米晶金属卸载塑性变形行为及其机制的研究, 2014年国家自然科学基金/80万/负责人
学术论文:	SCI论文: http://scholar.google.com/citations?hl=zh-CN&user=f98D_BUAAAAJ&cstart=100&pagesize=100&view_op=list_works&gmla=AJsN-F6MiNGVUbEMyMCMf4wN4f7ZK1hQV45RBwX0cr5top-UjJOamFnfrUaLkixa_CS3NB-cPkXFwyNNPM_pkZ9s3TJrW9ZIEQ2NfyMKEnb-WLYYD6qW3MtMdXH1qJ3pxC_Q7LQGaXMj 1. J. Liu, M. Jin, J. Li, Z. Jiang, The role of rare earth chlorides in the packtic coat-ing agent, Journal of Rare Earths, 8, 275-280 (1990). 2. J. Liu, M. Jin, Z. Jiang, L. Zhang, Microstructures and tensile mechanics beha-viours of lamellar-type dual phase steel, Chinese Journal of Mechanical Engi-neering, 26 (5), 71-76 (1990).

3. J. Liu, Z. Jiang, J. Lian, Influence of predeformation on microstructure and me-chanical properties of 1020 dual phase steel, *Materials Science and Technology*, 7, 527-532 (1991).
4. J. Lian, Z. Jiang, J. Liu, Theoretical model for the tensile work hardening beha-viour of dual-phase steel, *Materials Science and Engineering*, A147, 55-65 (1991).
5. Z. Jiang, J. Liu, J. Lian, A new relationship between the flow stress and micro-structural parameters of dual phase steel, *Acta Metallurgica et Materialia*, 40, 1587-1597 (1992).
6. Z. Jiang, J. Lian, J. Chen, Strain hardening behaviour and its relationship to ten-sile mechanical properties of dual phase steel, *Materials Science and Technology*, 8, 1075-1081 (1992).
7. Z. Jiang, Z. Guan, J. Lian, The relationship between ductility and material para-meters for dual-phase steel, *Journal of Materials Science*, 28, 1814-1818 (1993).
8. Z. Jiang, Z. Guan, J. Lian, Z. Zhang, Relationship between tensile deformation behaviour and microstructural parameters of a dual phase steel, *Acta Metallur-gica Sinica*, 7, 36-44 (1994).
9. Z. Jiang, J. Lian, B. Baudalet, A dislocation density approximation for the flow stress-grain size relation of polycrystals, *Acta Metallurgica et Materialia*, 43, 3349-3360 (1995).
10. Z. Jiang, Z. Guan, J. Lian, Effects of microstructural variables on the deforma-tion behaviour of dual-phase steel, *Materials Science and Engineering*, A190, 55-64 (1995).
11. M. Jin, Z. Jiang, S. Nan, J. Hu, J. Lian, Tempering response of a deformed low carbon dual phase structure, *Acta Metallurgica Sinica*, 8, 79-83 (1995).
12. Z. Jiang, J. Lian, D. Yang, S. Dong, An analytical study of the influence of ther-mal residual stresses on the elastic and yield behaviors of short fiber reinforced metal matrix composites, *Materials Science and Engineering*, A248, 256-275 (1998).
13. Z. Jiang, J. Lian, D. Yang, S. Dong, A new modification to the shear lag model as applied to stiffness and yield strength of short fiber reinforced metal matrix com-posites, *Journal of Materials Science and Technology*, 6, 87-98 (1998).
14. Z. Jiang, J. Lian, S. Dong, D. Yang, An application of the mod-ified shear lag model to study the influence of thermal residual stresses on the stiffness and yield strength of short fiber reinforced metal matrix composites, *Journal of Materials Science and Technology*, 15, 213-221 (1999).
15. J. Lian, X. Ding, Z. Jiang, P. Hu, The theoretical research in the yielding beha-viour of tensile deformation in short fiber reinforced metal matrix composite. *Acta Metallurgica Sinica*, 36 (2), 201-206 (2000).
16. J. Lian, X. Ding, Z. Jiang, P. Hu, Finite element numerical analysis of tensile stress field in short fiber reinforced metal matrix composite, *Acta Metallurgica Sinica*, 36(2), 196-200 (2000).
17. X. Ding, J. Lian, Z. Jiang, J. Sun, Effect of thermal residual stresses on yielding behavior under tensile or compressive loading of short fiber

- reinforced metal matrix composites, Transactions of Nonferrous Metals Society of China, 11, 503-508 (2001).
18. X. Ding, J. Lian, Z. Jiang, J. Sun, Thermal residual stresses and stress distributions under tensile and compressive loadings of short fiber reinforced metal matrix composites. Transactions of Nonferrous Metals Society of China, 11, 399-404 (2001).
19. X. Ding, Z. Jiang, J. Sun, J. Lian, L. Xiao, Stress-strain behavior in initial yield stage of short fiber reinforced metal matrix composite, Composites Science and Technology, 62, 841-850 (2002).
20. X. Ding, G. Liu, R. Wang, J. Sun, Z. Jiang, J. Lian, Yielding behavior of particle reinforced metal matrix composite, Acta Metallurgica Sinica, 38(4), 369-375 (2002).
21. X. Ding, J. Lian, Z. Jiang, Thermal residual stress and its effects on stress distribution under tensile and compressive loading in short fiber reinforced metal matrix composites, Acta Armamentarii, 23 (2), 282-285 (2002).
22. G. Li, L. Niu, J. Lian, Z. Jiang, A black phosphate coating for C1008 steel, Surface and Coatings Technology, 176, 215-221 (2004).
23. Z. Jiang, X. Liu, G. Li, J. Lian, A new analytical model for three-dimensional elastic stress field distribution in short fibre composite, Materials Science and Engineering, A 366, 381-396 (2004).
24. X. Ding, Z. Jiang, J. Lian, J. Sun, Dependence of initial stress-strain behavior on matrix plastic inhomogeneity in short fiber-reinforced metal matrix composite, Materials Science and Engineering, A369, 93-100 (2004).
25. C. Gu, J. Lian, G. Li, L. Niu, Z. Jiang, Direct electroless nickel plating on AZ91D magnesium alloy from a sulfate solution and its deposition mechanism, Trans. Mater. Heat Treatment, 25, 1098-1101 (2004).
26. Z. Jiang,* G. Li, J. Lian, X. Ding, J. Sun, Elastic-plastic stress transfer in short fibre-reinforced metal-matrix composites, Composites Science and Technology, 64, 1661-1670 (2004).
27. J. Lian, X. Zhang, H. Zhang, Z. Jiang,* J. Zhang, Synthesis of nanocrystalline NiO/doped CeO₂ compound powders through combustion of citrate/nitrate gel, Materials Letter., 58, 1183-1188 (2004).
28. C. Gu, J. Lian, G. Li, L. Niu, Z. Jiang, Direct electroless nickel plating on AZ91D magnesium alloy from a sulfate solution and its deposition mechanism, 14th Congress of the International Federation for Heat Treatment and Surface Engineering, OCT 26-28, 2004 Shanghai, VOLS 1 and 2, PROCEEDINGS, 1098-1101 (2004).
29. G. Li, J. Lian, L. Niu, et al., Microstructure and performances of nanocrystalline zinc-nickel alloy coatings, 14th Congress of the International Federation for Heat Treatment and Surface Engineering, OCT 26-28, 2004 Shanghai, VOLS 1 and 2, PROCEEDINGS, 1275-1278 (2004).
30. G. Li, J. Lian, L. Niu, Z. Jiang, A Zinc and Manganese Phosphate Coating on Automobile Iron, ISIJ International, 45, 1326-1330 (2005).
31. Z. Jiang,* X. Liu, H. Zhang, G. Li, J. Lian, An analytical model for elastic stress field distribution in fibre composite with partially debonded interface, Composites Science and Technology, 65, 1176-1194 (2005).
32. C. Gu, J. Lian, G. Li, L. Niu, Z. Jiang,* Electroless Ni-P plating on AZ91D magnesium alloy from a sulfate solution, Journal of Alloys and Compounds, 391, 104-109 (2005).

33. C. Gu, J. Lian, G. Li, L. Niu, Z. Jiang,* High corrosion-resistant Ni-P/Ni/Ni-P multilayer coatings on steel, *Surface and Coatings Technology*, 197, 61-67 (2005).
34. G. Li, J. Lian, L. Niu, Z. Jiang,* Investigation of nanocrystalline zinc-nickel alloy coatings in an alkaline zincate bath, *Surface and Coatings Technology*, 191, 59-67 (2005).
35. C. Gu, J. Lian, Z. Jiang, Multilayer-Ni-P coating for improvement the corrosion resistance of AZ91D magnesium alloy, *Advanced Engineering Materials*, 7, 1032-1036 (2005).
36. L. Niu, Z. Jiang, G. Li, C. Gu, J. Lian. A study and application of zinc phosphate coating on AZ91D magnesium alloy. *Surface and Coatings Technology*, 200, 3021-3126 (2006).
37. H. Zhang, Z. Jiang,* X. Liu, J. Lian, An investigation of smooth nanosized cop-per films on glass surface by improved electroless plating, *Surface Review and Letters*, 13, 471-478 (2006).
38. G. Li, J. Lian, L. Niu, Z. Jiang, Q. Jiang, Preparation, structure and properties of molybdate modified zinc phosphate coating on magnesium alloy AZ91D, *Chem-ical Journal of Chinese Universities-Chinese*, 27 (5), 817-820 (2006).
39. J. Lian, G. Li, L. Niu, C. Gu, Z. Jiang, Q. Jiang, Electroless Ni-P deposition plus zinc phosphate coating on AZ91D magnesium alloy, *Surface and Coatings Technology*, 200, 5956-5962 (2006)..
40. C. Gu, J. Lian, Z. Jiang, Q. Jiang, Enhanced tensile ductility in an electrodepo-sited nanocrystalline Ni, *Scripta Materialia*, 54, 579-584 (2006).
41. G. Li, J. Lian, L. Niu, Z. Jiang, Q. Jiang, Growth of zinc phosphate coatings on AZ91D mag-nesium alloy, *Surface and Coatings Technology*, 201, 1814-1820 (2006).
42. C. Gu, J. Lian, J. He, Z. Jiang, Q. Jiang, High corrosion-resistance nanocrystalline Ni coating on AZ91D magnesium alloy, *Surface and Coatings Technology*, 200, 5413-5418 (2006).
43. C. Gu, J. Lian, Z. Jiang, High strength nanocrystalline Ni-Co alloy with enhanced tensile ductility, *Advanced Engineering Materials*, 8, 252-256 (2006).
44. G. Li, J. Lian, L. Niu, Z. Jiang, Influence of pH of phosphating bath on the zinc phosphate coating on AZ91D magnesium alloy, *Advanced Engineering Mate-rials*, 8, 123-127 (2006).
45. L. Niu, G. L, Z. Jiang, L. Sun, D. Han, J. Lian, Influence of sodium metanitra-benzene sulphonate on structures and surface morphologies of phosphate coating on AZ91D, *Transactions of Nonferrous Metals Society of China*, 16, 567-571 (2006).
46. G. Li, N. Niu, Z. Jiang, C. Gu, J. Lian, Direct electroless Ni-P deposition on AM50 magnesium al-loy from sulfate bath, *Transactions of Nonferrous Metals Society of China*, 16, 65- 69 (2006).
47. G. Li, J. Lian, L. Niu, Z. Jiang,* Microstructure and property of zinc phosphate coating on die-casting magnesium alloy AZ91D, *Transactions of Nonferrous Metals Society of China*, 16, 70-74 (2006).
48. Z. Jiang,* X. Liu, G. Li, Q. Jiang, J. Lian, Strain rate sensitivity of a nanocrystal-line Cu synthe-sized by electric brush plating, *Applied Physics*

Letter, 88, 143115-1-3 (2006).

49. J. Lian, C. Gu, Q. Jiang, Z. Jiang, Strain rate sensitivity of face-centered-cubic nanocrystalline materials based on dislocation deformation, *Journal of Applied Physics*, 99, 076103-1-3 (2006).

50. M. Jin, Z. Jiang,* J. Lian, Z. Wang, Mathematical model of U-curve of steels. *Acta Metallurgica Sinica*, 42 (10), 1019 (2006).

51. M. Jin, J. Lian, Z. Jiang, A new method for prediction of Jominy Curve of structural steel, *Acta Metallurgica Sinica*, 42 (4), 405, (2006).

52. M. Jin, J. Lian, Z. Jiang, A new mathematical model describing hardenability of steels, *Acta Metallurgica Sinica*, 42 (3), 265 (2006).

53. G. Li, J. Lian, X. Liu, Z. Jiang,* Solutions of elastic stress field in fiber compo-sites, *CMESM 2006: Proceedings of the 1st International Conference on Enhancement and Promotion of Computational Methods in Engineering Science and Mechanics*. Pages: 343-349, Published (2006).

54. C. Gu, J. Lian, Z. Jiang, et al, Enhanced tensile ductility in an electrodeposited nanocrystalline Ni, 2006 IEEE Conference on Emerging Technologies- Nanoelectronics, JAN 10-13, Singapore, 293-297 (2006).

55. C. Gu, J. Lian, Q. Jiang, Z. Jiang, Ductile-brittle-ductile transition in an electro-deposited 13 nanometer grain sized Ni-8.6wt.%Co alloy, *Materials Science and Engineering*, A459, 75-81 (2007).

56. G. Li, J. Lian, L. Niu, Z. Jiang,* H. Dong, Effect of zinc-phosphate-molybdate conversion pre-coating on performance of cathode epoxy electrocoat on AZ91D alloy, *Surface Engineering*, 23, 1, 56-61 (2007).

57. W. Zhang, N. Huang, J. He, Z. Jiang, Q. Jiang, J. Lian, Electroless deposition of Ni-W-P coating on AZ91D magnesium alloy, *Applied Surface Science*, 253, 5116-5121 (2007).

58. W. Zhang, J. He, Z. Jiang, Q. Jiang, J. Lian, Electroless Ni-P layer with a chromium-free pretreatment on AZ91D magnesium alloy, *Surface and Coatings Technology*, 201, 4594-4600 (2007).

59. X. Li, W. Zhang, Z. Jiang,* Preparation and property evaluation of electroless Ni-P coatings on AZ91D magnesium alloy, *Transactions of Nonferrous Metals Society of China*, 17, 835-840 (2007).

60. H. Zhang, Z. Jiang, J. Lian, X. Hou, Surface characterization and electrical resistivity of electroless plating nanocrystalline copper films on glass, *Transactions of Nonferrous Metals Society of China*, 17, 736-740 (2007).

61. G. Li, L. Niu, Q. Jiang, Z. Jiang, J. Lian, Electroless Ni-P deposition on magnesium alloy from a sulfate bath, *Journal of Wuhan University of Technology-Mater. Sci. Ed.* Feb. 23, 60-64 (2008).

62. H. Zhang, Z. Jiang,* J. Lian and Q. Jiang, Bulk Nanostructured Cu with high strength and good ductility, *Advanced Engineering Materials*, 10, 41-45 (2008).

63. W. Zhang, Z. Jiang, G. Li, Q. Jiang, J. Lian, Electroless Ni-P/Ni-B duplex coatings for improving the hardness and the corrosion resistance of AZ91D magnesium alloy, *Surface and Coatings Technology*, 254, 4949-4955 (2008).

64. W. Zhang, Z. Jiang, G. Li, Q. Jiang, J. Lian, Electroless Ni-Sn-P coating on AZ91D magnesium alloy and its corrosion resistance, *Surface and*

Coatings Technology, 202, 2570-2576 (2008).

65. H. Zhang, Z. Jiang,* J. Lian, Q. Jiang, Strain rate dependence of tensile ductility in an electrodeposited Cu with ultrafine grain size, Materials Science and Engineering, A479, 136-141 (2008).

66. F. Qiu, P. Shen, Z. Jiang, T. Liu, Q. Jiang, Strong work-hardening effect in a multiphase ZrCuAlNiO alloy, Applied Physics Letter, 92, 151912-1-3 (2008).

67. F. Qiu, T. Liu, Z. Jiang, P. Shen, Q. Jiang, Formation of a Multiphase Gradient Structure in a Zr-Cu-Ni-Al-O Alloy, Advanced Engineering Materials, 10, 384-388 (2008).

68. X. Shen, J. Lian, Z. Jiang, Q. Jiang, High strength and high ductility of electro-deposited nanocrystalline Ni with a broad grain size distribution, Materials Science and Engineering, A487, 410-416 (2008).

69. Z. Jiang,* H. Zhang, C. Gu, Q. Jiang, J. Lian, Deformation mechanism transition caused by strain rate in a pulse electric brush-plated nanocrystalline Cu, Journal of Applied Physics, 104, 0535051-3 (2008).

70. G. Wang, Z. Jiang, Q. Jiang, J. Lian, Mechanical behavior of an electrodeposited nanostructured mixture of nanocrystalline grains and nanoscale growth sub-micrometer grains, Journal of Applied Physics, 104, 084305-1-3 (2008).

71. G. Wang, Z. Jiang, H. Zhang, J. Lian, Enhanced tensile ductility in an electrode-posed nanocrystalline copper, Journal of Materials Research, 23, 2239-2244, (2008).

72. X. Shen, J. Lian, Z. Jiang, Q. Jiang, The optimal grain sized nano-crystalline Ni with high strength and good ductility fabricated by a direct current Electrode-po-sition, Advanced Engineering Materials, 10, 539-546 (2008).

73. L. Qin, J. Xu, J. Lian, Z. Jiang, Q. Jiang, A novel electrodeposited nanostructured Ni coating with grain size gradient distribution, Surface and Coatings Technol-ogy, 203, 142-147 (2008).

74. H. Li, Z. Jiang, Q. Jiang, Size-dependent structural stability of ZnO nanowires and sin-gle-walled nanotubes, Chemical Physics Letters, 465, 1-3, 78-81 (2008).

75. S. Li, Z. Jiang, Q. Jiang, Thermodynamic phase stability of three nano-oxides, Materials Research Bulletin, 43, 11, 3149-3154 (2008).

76. H. Zhang, Z. Jiang,* J. Lian, A comparison of tensile properties of two types of nano-crystalline Cu, Rare Metal Materials and Engineering, 37, 2, 346-349 (2008).

77. G. Wang, J. Lian, Z. Jiang,* L. Qin, Q. Jiang, Compressive creep behavior of an electric brush-plated nanocrystalline Cu at room temperature, Journal of Applied Physics, 106, 086105-1-3 (2009).

78. F. Huang, Z. Jiang,* X. Liu, J. Lian, L. Chen, Microstructure and properties of thin wall by laser cladding forming, Journal of Materials Processing Technol-ogy, 209, 4970-4976 (2009).

79. H. Zhang, Z. Jiang,* Y. Qiang, Microstructure and tensile deformation of nano-crystalline Cu produced by pulse electrodeposition, Materials Science and En-gineering, A517, 316-320 (2009).

80. P. Li, H. Lu, Z. Cao, S. Tang, X. Meng, X. Li, Z. Jiang, Order-disorder transition and Curie transition in Ni₇₀Fe₃₀ nanoalloy, *Applied Physics Letter*, 94, 213112 (2009).
81. G. Wang, Z. Jiang, J. Lian, Q. Jiang, The grain refinement mechanism of electrodeposited copper, *Journal of Materials Research*, 24, 3226-3236 (2009).
82. L. Qin, J. Lian, Z. Jiang, G. Wang, Q. Jiang, Dual phase nanocrystalline Ni-Co alloy with high strength and enhanced ductility, *Journal of Materials Research*, 25, 401-405 (2010).
83. D. Fang, G. Bi, L. Wang, G. Li, Z. Jiang,* Microstructures and mechanical properties of Mg-2Y-1Mn-1-2Nd alloys fabricated by extrusion, *Materials Science and Engineering*, A527, 4383-4388 (2010).
84. G. Wang, G. Li, L. Zhao, J. Lian, Z. Jiang, Qing Jiang, The origin of the ultrahigh strength and good ductility in nanotwinned copper, *Materials Science and Engineering*, A527, 4270-4274 (2010).
85. X. Shen, C. Gu, J. Lian, Q. Jiang, Z. Jiang, L. Qin, Tensile-relaxation behavior of electrodeposited nanocrystalline Ni, *Journal of Applied Physics*, 108, 0543191-3 (2010).
86. G. Wang, Z. Jiang, J. Lian, Enhanced tensile ductility in an electrodeposited Cu with nano-sized growth twins, *International Journal of Modern Physics, B*, 24, 2537-2542 (2010).
87. G. Bi, D. Fang, L. Zhao, Q. Zhang, J. Lian, Q. Jiang, Z. Jiang,* Double-peak ageing behavior of Mg-2Dy-0.5Zn alloy, *Journal of Alloys and Compounds*, 509, 8268-8275 (2011).
88. G. Bi, D. Fang, L. Zhao, J. Lian, Q. Jiang, Z. Jiang,* An elevated temperature Mg-Dy-Zn alloy with long period stacking ordered phase by extrusion, *Materials Science and Engineering*, A528, 3609-3614 (2011).
89. Z. Cao, P. Li, Z. Jiang, Rolling deformation induced reduction of rate sensitivity and enhancement of hardness in nanocrystalline NiFe alloys, *Journal of Physics D: Applied Physics*. 44, 295403-7 (2011).
90. P. Li, Z. Cao, Z. Jiang, X. Meng, FMAA-MS Investigation into Ni₆₈Fe₃₂ nanoalloy with sample length less than 30 mm, *Chinese Physics Letters*, 28, 086401-4 (2011).
91. P. Li, H. Lu, Z. Jiang, Y. Huang, X. Meng, Chemical ordering phase transitions in Ni-Fe nanoalloys, *Journal of Physics D-Applied Physics*, 44, (2011).
92. F. Huang, Z. Jiang,* X. Liu, et al, Effects of Process Parameters on Microstructure and Hardness of Layers by Laser Cladding, *Isij International*, 51, 441-447 (2011).
93. J. Sudagar, G. Bi, Z. Jiang, G. Li, Q. Jiang, J. Lian, Electrochemical polarization behaviour of electroless Ni-P deposits with different chromium-free pretreatment on magnesium alloy, *International Journal of Electrochemical Science*, 6, 2767-2788 (2011).
94. F. Huang, Z. Jiang,* Z. Zhang, et al, Microstructure of Nickel-based alloy formed by multi-layer overlapping laser cladding, 2011 3rd World Congress in Applied Computing, Computer Science, and Computer Engineering (Acc 2011), 4, 397-402 (2011).

95. J. Zhang, D. Jin, L. Zhao, Z. Jiang,* Preparation of nano-silver iodide powders and their efficiency as ice-nucleating agent in weather modification, *Advanced Powder Technology*, 22, 613-616 (2011).
96. J. Li, F. Du, X. Liu, Z. Jiang, L. Ren, Superhydrophobicity of bionic alumina surfaces fabricated by hard anodizing, *Journal of Bionic Engineering*, 8, 369-374 (2011).
97. X. Liu, Z. Jiang, Y. Guo, Z. Zhang, L. Ren, Fabrication of super-hydrophobic nano-sized copper films by electroless plating, *Thin Solid Films*, 518, 3731-3734 (2010).
98. D. Fang, Z. Jiang,* G. Bi, R. Li, G. Li, Microstructures and mechanical properties of extruded Mg-1Mn-3.5Y and Mg-1Mn-1Y-2.5Nd alloys, *Transactions of Nonferrous Metals Society of China*, 20, S555-S560 (2010).
99. J. Zhang, Z. Jiang,* D. Jin, et al. Preparation of nano-Cr₂-xAl_xO₃ (x=0-1) solid solution powders by using citrate-dispersant method, *Materials Science and Engineering B172*, 33-36 (2010).
100. X. Liu, Z. Jiang, J. Li, Z. Zhang, L. Ren, Superhydrophobic property of nano-sized cupric oxide films, *Surface and Coatings Technology*, 204, 3200-3204 (2010).
101. P. Shen, Z. Yin, J. Yang, J. Sun, Z. Jiang, Q. Jiang, Wetting of Cu substrates with micrometer and nanometer grains by molten Sn-3.5Ag-0.7Cu alloy, *Surface and Interface Analysis*, 42, 1681-1684 (2010).
102. J. Mu, L. Zhao, S. Sun, Z. Jiang,* J. Lian, Preparation of nanocrystalline Cu films by electric-brush-plating, *Integrated Ferroelectrics*. 137, 52-60 (2012).
103. J. Mu, Z. Jiang,* W. Zheng, H. Tian, J. Lian, Q. Jiang, High-speed creep process mediated by rapid dislocation absorption in nanocrystalline Cu, *Journal of Applied Physics*, 111, 063506 (2012).
104. J. Sudagar, J. Lian, Q. Jiang, Z. Jiang, G. Li, R. Elansezhian, The performance of surfactant on the surface characteristics of electroless nickel coating on magnesium alloy, *Progress in Organic Coatings*. 74, 788-793 (2012).
105. G. Bi, D. Fang, W. Zhang, J. Sudagar, Q. Zhang, J. Lian, Z. Jiang,* Microstructure and mechanical properties of an extruded Mg-2Dy-0.5Zn alloy, *Journal of Materials Science and Technology*, 28, 543-551 (2012).
106. Z. Cao, P. Li, L. Wang, Z. Jiang, X. Meng, A crossover from hardening to softening in nanocrystalline Ni by annealing and rolling, *Applied Physics A-Materials Science and Processing*, 109, 613-619 (2012).
107. X. Li, J. Mu, Z. Jiang,* Tensile and compressive properties analysis of nano-crystalline Cu prepared by electrical brush-plating, *Rare Metal Materials and Engineering*, 41, 684-687 (2012).
108. M. Xue, Z. Jiang,* W. Li, G. Bi, J. Ou, F. Wang, C. Li, Self-assembly growth and electron work function of copper phthalocyanine films on indium tin oxide glass, *Applied Surface Science*, 258, 3373-3377 (2012).
109. M. Xue, J. Xie, W. Li, F. Wang, J. Ou, C. Yang, C. Li, Z. Zhong, Z. Jiang, Changes in surface morphology and work function caused by corrosion in aluminum alloys, *Journal of Physics and Chemistry of Solids*, 73, 781-787 (2012).

110. M. Xue, H. Wu, J. Ou, F. Wang, X. Li, W. Li, Z. Jiang, On the correlation between surface morphology and electron work function of indium tin oxide, *Journal of Applied Physics*, 111, 123714 (2012).
111. J. Mu, X. Li, L. Zhao, Z. Jiang,* J. Lian, Q. Jiang, Stable ductility of an electro-deposited nano-crystalline Ni-20 wt.% Fe alloy in tensile plastic deformation, *Journal of Alloys and Compounds*, 553, 99-105 (2013).
112. J. Mu, S. Sun, Z. Jiang,* J. Lian, Q. Jiang, Dislocation-mediated creep process in nanocrystal-line Cu, *Chinese Physics B*, 22, 037303-1-9 (2013).
113. D. Fang, G. Bi, J. Jiang, Q. Peng, Z. Jiang, X. Zhang, Y. Jin, Y. Chai, D. Zhang, Influences of Y and Y-Rich mischmetal additions on microstructure and compressive properties of As-Cast Al-Mg-Mn alloy, *Journal of Materials Engineering and Performance*, 22 (4), 1201-1207 (2013).
114. G. Ma, J. Yang, Y. Liu, S. He, Z. Jiang, Friction and Wear Behavior of Nano-crystalline Nickel in Air and Vacuum, *Tribology Letters*, 49, 481-490 (2013).
115. S. Sun, J. Mu, Y. Gao, et al, The effect of Fe content on the deformation mechanism of nanocrystalline Ni-Fe alloy, *Rare Metal Materials and Engineering*, 42, 388-392 (2013).
116. G. Ma, X. Li, H. Liu, C. Liu, Z. Jiang, J. Yang, S. He, Study on energy loss of high-energy protons in nano crystalline Ni, *Radiation Effects and Defects in Solids-Incorporating Plasma Science and Plasma Technology*, 168, 933-939 (2013).
117. K. Meng, Y. Jiang, Z. Jiang,* J. Lian, Q. Jiang, Cu surfaces with controlled structures: from intrinsically hydrophilic to apparently superhydrophobic, *Applied Surface Science*, 290, 320-326 (2014).
118. K. Meng, Y. Jiang, Z. Jiang,* J. Lian, Q. Jiang, Residual stress induced wetting variation on electric brush-plated Cu film, *Chinese Physics B*, 23, 3, 038201-5 (2014).
119. K. Meng, Y. Jiang, Z. Jiang,* J. Lian, Q. Jiang, Impact dynamics of water drop-lets on Cu films with three-level hierarchical structures, *Journal of Materials Science*, 49, 3379-3390 (2014).
120. S. Sun, G. Sun, Z. Jiang,* C. Ji, J. Liu, J. Lian, Effects of cold rolling deformation on microstructure, hardness and creep behavior of high nitrogen austenitic stainless steel, *Chinese Physics B*, 23, 2, 026104-6 (2014).

上一篇: 安健

下一篇: 李建忱

友情链接



吉林大学

金属材料研究所

校内办公网

吉林大学招生网

图书馆

中国工程院

吉大就业网

中国材料研究学会

© 版权所有：吉林大学材料科学与工程学院 地址：吉林省长春市人民大街5988号 邮编：130022 电话：0431-85094375 E-mail:cailiao@jlu.edu.cn