

【学术兼职】：

Metall Mater Trans A、Mater Sci Eng A、J. Mater Sci、J. Alloys Compounds等国外著名材料期刊的特邀评审员。

中国科学院金属研究所合金钢课题组客座研究员；昆士兰大学客座教授。

日本钢铁学会、日本金属学会、澳大利亚轻合金研究中心、澳大利亚材料学会会员。

【主要奖励】：

多次获得过中国科学院金属研究所年度优秀科研奖

2001年度师昌绪奖

2001年度刘永龄奖

2001年度中信微合金化技术中心优秀论文奖

2003年度师昌绪一等奖

2003年度中国科学院院长优秀奖。

【部分近年以第一作者发表的SCI检索的国际权威期刊和重要期刊论文】：

1. **Ming-Chun Zhao**, Schmutz Patrik, Brunel Samuel, Ming Liu, Guang-Ling Song, Andrej Atrens, An exploratory study of the corrosion of Mg alloys during interrupted salt spray testing, *Corrosion Science*, vol. 51, 1277-1292, 2009, indexed by Sci/Ei.
2. **Ming-Chun Zhao**, Yun-Lai Deng, Xing-Ming Zhang. Strengthening and Improvement of Ductility without Loss of Corrosion Performance in a Magnesium Alloy by Homogenizing Annealing, *Scripta Mater.*, vol.58, 560-563, 2008, indexed by Sci/Ei.
3. **Ming-Chun Zhao**, Ming Liu, Guang-Ling Song, Andrej Atrens, Influence of Distribution of Second β phase on Corrosion Behavior of AZ91 Magnesium Alloy in Sodium Chloride, *Corrosion Science*, *Corrosion Science*, vol.50, 1939-1953, 2008, indexed by Sci/Ei.
4. **Ming-Chun Zhao**, Toshihiro Hanamura, Fuxing Yin, Hai Qiu, Kotobu Nagai. Formation of Bimodal-Sized Structure and its Tensile Properties in a Warm-Rolled and Annealed Ultrafine-Grained Ferrite/Cementite Steel, *Metall. Mater. Trans. A*, vol.39 (7), 1691-1701, 2008, indexed by Sci/Ei.
5. **Ming-Chun Zhao**, Fuxing Yin, Toshihiro Hanamura, Hai Qiu, Kotobu Nagai, Andrej Atrens. Relationship between yield strength and grain size for a bimodal structural ultrafine-grained ferrite/cementite steels, *Scripta Mater.*, vol.57 (9), 857-860, 2007, indexed by Sci/Ei.
6. **Ming-Chun Zhao**, Ming-Liu, Guang-Ling Song, Andrej Atrens, Influence of pH and Chloride Ion Concentration on Corrosion of Magnesium Alloy ZE41, *Corrosion Science*, vol.50, 3168-3178, 2008, indexed by Sci/Ei.
7. **Ming-Chun Zhao**, Toshihiro Hanamura, Hai Qiu, Ke Yang. Low absorbed energy ductile dimple fracture in lower shelf region in an ultrafine grained ferrite/cementite steel, *Metall. Mater. Trans. A*, vol.37 (9), 2897-2990, 2006, indexed by Sci/Ei.

8. **Ming-Chun Zhao**, Toshihiro Hanamura, Hai Qiu, Kotobu Nagai, Ke Yang. Dependence of strength and strength-elongation balance on the volume fraction of cementite particles in ultrafine grained ferrite/cementite steels, *Scripta Mater.*, vol.54 (7), 1385-1389, 2006, indexed by Sci/Ei.
9. **Ming-Chun Zhao**, Toshihiro Hanamura, Hai Qiu, Kotobu Nagai, Ke Yang. Grain growth and Hall-Petch relation in dual-sized ferrite/cementite steel with nano-sized cementite particles in a heterogeneous and dense distribution, *Scripta Mater.*, vol.54 (6), 1193-1197, 2006, indexed by Sci/Ei.
10. **Ming-Chun Zhao**, Toshihiro Hanamura, Hai Qiu, Ke Yang. Microstructural Evolution of Submicron Sized Ferrite in Bimodal Structural Ultrafine Grained Ferrite/Cementite Steels by Annealing below Austenized Temperature, *Metall. Mater. Trans. A*, vol.37 (5), 1657-1664, 2006, indexed by Sci/Ei.
11. **Ming-Chun Zhao**, Ke Yang. Effects of Nano-sized Microalloyed Carbonitrides and High-density Pinned Dislocations on Sulfide Stress Cracking Resistance of Pipeline Steels, *J. Mater. Res.*, Vol. 20 (9), 2248-2251, 2005, indexed by Sci/Ei.
12. **Ming-Chun Zhao**, Bei Tang, Yi-Yin Shan, Ke Yang. Role of microstructure on sulfide stress cracking of oil and gas pipeline steels, *Metall. Mater. Trans. A*, Vol. 34A (5), 1089-1096, 2003, indexed by Sci/Ei.
13. **Ming-Chun Zhao**, Ke Yang. Strengthening and improvement of sulfide stress cracking resistance in acicular ferrite pipeline steels by nano-sized carbonitrides, *Scripta Mater.*, Vol.52 (9), 881-886, 2005, indexed by Sci/Ei.
14. **Ming-Chun Zhao**, Ming Liu, Andrej Atrens, Yi-Yin Shan, Ke Yang. Effect of Applied Stress and Microstructure on Sulfide Stress Cracking Resistance of Pipeline Steels Subject to Hydrogen Sulfide, *Mater. Sci. Eng. A*, vol.478 (1-2), 43-47, 2008, indexed by Sci/Ei.
15. **Ming-Chun Zhao**, Toshihiro Hanamura, Hai Qiu, Ke Yang. Precipitation of Carbonitrides and Their Strengthening upon Non-quench Aging for Micro-alloyed Acicular Ferrite Pipeline Steels, *Mater. Trans.*, Vol.46 (4), 784-789, 2005, indexed by Sci/Ei.
16. **Ming-Chun Zhao**, Ming-Liu, Guang-Ling Song, Andrej Atrens. Influence of Homogenization Annealing of AZ91 on Mechanical Properties and Corrosion Behavior, *Adv. Eng. Mater.*, vol.10, 93-103, 2008, indexed by Sci/Ei.
17. **Ming-Chun Zhao**, Ming-Liu, Guang-Ling Song, Andrej Atrens, Influence of Microstructure on Corrosion of As-cast ZE41, *Adv. Eng. Mater.*, vol.10, 104-111, 2008, indexed by Sci/Ei.
18. **Ming-Chun Zhao**, PJ Uggowitzer, Ming Liu, P Schmutz, Guang-Ling Song, Andrej Atrens. Corrosion of AZ91 - Influence of the β -phase Morphology, *Materials Science Forum* Vols. 618-619, 473-478, 2009, indexed by Sci/Ei.
19. **Ming-Chun Zhao**, Yi-Yin Shan, Ke Yang. Effect of aging treatment on mechanical property and H₂S resistance behavior of acicular ferrite pipeline steels, *Acta Metall Sin*, Vol.40 (9), 948-954, 2004, indexed by Sci/Ei.

20. **Ming-Chun Zhao**, Fu Ren Xiao, Yi-Ying Shan, Yu Hai Li, Ke Yang. Microstructural characteristic and toughening of an ultralow carbon acicular ferrite pipeline steel, *Acta Metall Sin*, Vol.38 (3), 283-287, 2002, indexed by Sci/Ei.
21. **Ming-Chun Zhao**, Toshihiro Hanamura, Hai Qiu, Ke Yang. Lath boundary thin-film martensite in acicular ferrite ultralow carbon pipeline steels, *Mater. Sci. Eng. A*, Vol. 395A (1-2), 327-332, 2005, indexed by Sci/Ei.
22. **Ming-Chun Zhao**, Yi-Ying Shan, Yu Hai Li, Ke Yang. Effect of microstructure on sulfide stress corrosion cracking of pipeline steels, *Acta Metall Sin*, Vol.37 (10), 1087-1092, 2001, indexed by Sci/Ei.
23. **Ming-Chun Zhao**, Toshihiro Hanamura, Hai Qiu, Kotobu Nagai, Yi-Yin Shan and Ke Yang. Difference in the role of non-quench aging on mechanical properties between acicular ferrite and ferrite-pearlite pipeline steels, *I SJJ Int.*, Vol.45 (1), 116-120, 2005, indexed by Sci/Ei.
24. **Ming-Chun Zhao**, Ke Yang, Fu-Ren Xiao, Yi-Yin Shan. Continuous cooling transformation of undeformed and deformed low carbon pipeline steels, *Mater. Sci. Eng. A*, Vol. 355A (1-2), 126-136, 2003, indexed by Sci/Ei.
25. **Ming-Chun Zhao**, Yi-Ying Shan, Jin-bo Qu, Fu-Ren Xiao, Yong Zhong, Ke Yang. Acicular ferrite formation in a pipeline steel with thermo-mechanical control process, *Acta Metall Sin*, Vol.37 (8), 820-824, 2001, indexed by Sci/Ei.
26. **Ming-Chun Zhao**, Yi-Yin Shan, Fu-Ren Xiao, Ke Yang. Acicular ferrite formation during hot plate rolling of pipeline steels, *Mater. Sci. Technol.*, Vol. 19 (3), 355-359, 2003, indexed by Sci/Ei.
27. **Ming-Chun Zhao**, Yi-Ying Shan, Fu Ren Xiao, Ke Yang, Yu Hai Li. Investigation on the H₂S-resistant behaviors of acicular ferrite and ultrafine ferrite, *Mater. Letter*, Vol. 57 (1), 141-145, 2002, indexed by Sci/Ei.
28. **Ming-Chun Zhao**, Yi-Ying Shan, Jin-bo Qu, Ke Yang, Shan Gao, Lei Zhen. Effect of thermo-mechanical control process on microstructures and mechanical properties of X60 pipeline steel, *Acta Metall Sin*, Vol.37 (2), 179-183, 2001, indexed by Sci/Ei.
29. **Ming-Chun Zhao**, Ke Yang, Yiyang Shan. The effects of thermo-mechanical control process on microstructures and mechanical properties of a commercial pipeline steel, *Mater. Sci. Eng. A*, Vol. 335 (1-2), 14-20, 2002, indexed by Sci/Ei.
30. **Ming-Chun Zhao**, Ke Yang, Yi-Yin Shan. Comparison on strength and toughness behaviors of microalloyed pipeline steels with acicular ferrite and ultrafine ferrite, *Mater. Letter*, Vol.57 (9-10), 1496-1500, 2003, indexed by Sci/Ei.

【国家发明专利】：

- 一种提高现有针状铁素体管线钢强度的方法，专利号02130812.8, 2002.9.30.
- 一种提高现有针状铁素体管线钢抗硫化氢性能的方法，专利号200310119050.3, 2003.12.12.
- 一种高纯净度高强度韧性输气输气管线钢的制备方法，专利号00123128.6, 2000.10.26.

一种超低碳高韧性抗硫化氢用输气管线钢，专利号00123185.5, 2000.11.01.



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