Registration Form for WFC Scientific Committee

Personal Info.

Name: LI Jinshan

Title: Professor, Dean of School of Materials Science Affiliation: Northwestern Polytechnical University



Education Background

Northwestern Polytechnical University 1984.09-1988.07

Major in: Foundry

Degree: Bachelor degree

Northwestern Polytechnical University 1992.09-1995.03

Major in: Foundry
Degree: Master degree

Northwestern Polytechnical University 1995.09-1998.11

Major in: Foundry
Degree: Ph.D degree

Working Experience

Northwestern Polytechnical University 2016.05-Now

Position: Professor, Dean of School of Materials Science

Responsibility:

1. Dean of the School of Materials Science

- 2. Director of state key laboratory of solidification processing
- 3. Research and teaching

Major Achievements:

- 1. Published more than 300 peer reviewed journal papers;
- 2. Granted more than 80 patents;
- 3. Granted more than 20 projects, including National Key Research and Development Program of China, National Natural Science Foundation of China.

Representative Publications (Total journal papers >300)

(1). H. Zhi, J. Li, W. Li, M. Elkot, S. Antonov, H. Zhang, M. Lai, Simultaneously enhancing strength-

Oct.25-30, 2024 Deyang, China

- ductility synergy and strain hardenability via Si-alloying in medium-Al FeMnAlC lightweight steels, Acta Materialia 245 (2023) 118611.
- (2). Y. Liu, J. Li, B. Tang, L. Song, W.Y. Wang, D. Liu, R. Yang, H. Kou, Decomposition and phase transformation mechanisms of a2 lamellae in ss-solidified gamma-TiAl alloys, Acta Materialia 242 (2023) 118492.
- (3). G. Zheng, B. Tang, S. Zhao, X. Chen, L. Zhu, J. Li, W.Y. Wang, Evading the strength-ductility trade-off at room temperature and achieving ultrahigh plasticity at 800 degrees C in a TiAl alloy, Acta Materialia 225 (2022) 117585.
- (4). R. Yuan, Z. Liu, Y. Xu, R. Yin, J. He, Y. Bai, Y. Zhou, J. Li, D. Xue, T. Lookman, Optimizing Electrocaloric Effect in Barium Titanate-based Room Temperature Ferroelectrics: Combining Landau Theory, Machine Learning and Synthesis, Acta Materialia 235 (2022) 118054.
- (5). C. Zou, J. Li, W.Y. Wang, Y. Zhang, D. Lin, R. Yuan, X. Wang, B. Tang, J. Wang, X. Gao, H. Kou, X. Hui, X. Zeng, M. Qian, H. Song, Z.-K. Liu, D. Xu, Integrating data mining and machine learning to discover high-strength ductile titanium alloys, Acta Materialia 202 (2021) 211-221.
- (6). W.Y. Wang, B. Tang, S.-L. Shang, J. Wang, S. Li, Y. Wang, J. Zhu, S. Wei, J. Wang, K.A. Darling, S.N. Mathaudhu, Y. Wang, Y. Ren, X.D. Hui, L.J. Kecskes, J. Li, Z.-K. Liu, Local lattice distortion mediated formation of stacking faults in Mg alloys, Acta Materialia 170 (2019) 231-239.
- (7). K. Hua, Y. Zhang, W. Gan, H. Kou, J. Li, C. Esling, Correlation between imposed deformation and transformation lattice strain on α variant selection in a metastable β -Ti alloy under isothermal compression, Acta Materialia 161 (2018) 150-160.
- (8). W.Y. Wang, F. Xue, Y. Zhang, S.L. Shang, Y. Wang, K.A. Darling, L.J. Kecskes, **J.S. Li**, X.D. Hui, Q. Feng, Z.K. Liu, Atomic and electronic basis for solutes strengthened (010) anti-phase boundary of L1(2) Co-3(Al, TM): A comprehensive first-principles study, Acta Materialia 145 (2018) 30-40.
- (9). M. Zhang, J. Li, B. Tang, W.Y. Wang, K. Li, T. Zhang, D. Wang, H. Kou, Quantification of ? phase strengthening in titanium alloys: Crystal plasticity model incorporating ?/? heterointerfaces, International Journal of Plasticity 158 (2022) 103444.
- (10).Z. Wu, H. Kou, J. Li, S. Hemery, N. Chen, J. Tang, F. Qiang, F. Sun, F. Prima, High-strength and low-dwell-sensitivity titanium alloy showing high tolerance to microcracking under dwell fatigue condition, International Journal of Plasticity 159 (2022) 103449.

Other information:

- President of solidification science and technology society of C-MRS
- **Vice President** of foundry society of C-MES
- Science and Technology Award (1nd Class), the Ministry of Industry and Information Technology, P.R.China, 2021
- Science and Technology Award (1nd Class), the People's Government of Shaanxi Province, P.R.China, 2019
- Editor, Foundry Technology (2018), Associate Editor, Foundry (2019), Editor board member of more than 10 journals