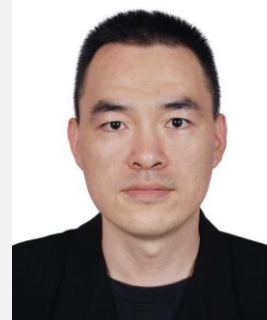




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## Prof. Zhijun Wang

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Dr. Zhijun Wang is a professor of materials science and engineering at Northwestern Polytechnical University in Xi'an, China. He obtained his B. S. (2006) and Ph.D. (2010, Prof. Gencang Yang) in material science and engineering in Northwestern Polytechnical University. After two stints as a postdoctoral fellow at Northwestern Polytechnical University (2010-2012, Prof. Yaohe Zhou) and City university of HongKong (2013-2014, Prof. C.T. Liu), He was appointed as an associate professor in school of material science and engineering at Northwestern Polytechnical University. He was promoted to full professor in 2019.

His research interests span both phase field simulations and alloy design. Much of his work has been on improving the understanding of microstructure evolution during phase transformation and designing high performance metallic alloys by tailoring the compositions and microstructures. In addition, he has made numerous contributions to eutectic high entropy alloys from the phase selection to the microstructure control during material processing. He has made more than 250 peer-reviewed research papers (h-index=42; i10-index=110; Dec. 2023), including 25 papers in Acta/Scripta materialism.

### Selected papers:

1. Phase-selective recrystallization makes eutectic high-entropy alloys ultra-ductile. Q Wu, F He, J Li, HS Kim, **Z Wang**, J Wang, Nature Communications 13 (1), 4697, 2022
2. Boron microalloying for high-temperature eutectic high-entropy alloys. Y Jia, **Z Wang**, Q Wu, Y Wei, X Bai, L Liu, J Wang, X Liu, L Wang, F He, et al. Acta Materialia 262, 119427, 2024
3. Uncovering the eutectics design by machine learning in the Al-Co-Cr-Fe-Ni high entropy system. Q Wu, **Z Wang**, X Hu, T Zheng, Z Yang, F He, J Li, J Wang, Acta Materialia 182, 278-286, 2019
4. In-situ tailoring microstructures to promote strength-ductility synergy in laser powder bed fusion of NiCoCr medium-entropy alloy. K Zhou, D Cui, Z Chai, Y Zhang, Z Yang, C Zhu, **Z Wang**, J Li, J Wang, Additive Manufacturing 66, 103443, 2023
5. Phase field modeling the selection mechanism of primary dendritic spacing in directional solidification. **Z Wang**, J Li, J Wang, Y Zhou, Acta Materialia 60 (5), 1957-1964, 2012.