



Chimie ParisTech-PSL
PhD

Male

Nationality: Chinese

Date of birth: 27.8.1996

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Name Zihan Wang

Education

- 2021-2024 PhD in Chimie ParisTech-PSL; Paris, France
○ Supervisor: Frédéric LABAT
- 2018-2021 Master's Degree in Material Science and Engineering; Shandong University;
Jinan, Shandong, China
○ Supervisor: Jianxin Zhang
- 2014-2018 Bachelor's Degree in Material Forming & Controlling Engineering; Shandong
University; Jinan, Shandong, China
○ GPA: 80.53

Awards and Honors

- 12.2020 The outstanding student scholarship, Shandong University
- 12.2019 The outstanding student scholarship, Shandong University
- 06.2018 The third prize for undergraduate on innovation and entrepreneurship (national level)

Research Interests

Theoretical studies of superalloys, using the first-principles study.

Publications

1. **Zihan Wang**, Jianxin Zhang, Youjian Zhang, Huixin Jin, Wenyang Zhang. First-principles Study of a Tungsten-free γ - γ' Co-Al-Mo-Nb Class Cobalt-based Superalloy and the Alloying Effect of Ti Addition. *Journal of the Physical Society of Japan*, 89 (2020), 124714. (<https://doi.org/10.7566/JPSJ.89.124714>)
2. **Zihan Wang**, Jianxin Zhang, Pan Li, Youjian Zhang, Huixin Jin, Wenyang Zhang. Site

preference of Ti and Nb in L1₂-ordered Co-Al-W phase and their effect on the properties of the alloy: first-principles study. *Communications in Theoretical Physics*, 73 (2021), 025702. (<https://doi.org/10.1088/1572-9494/abd0e6>)

3. **Zihan Wang**, Jianxin Zhang, Pan Li, Youjian Zhang, Huixin Jin, Cheng Xu. Effects of Pressure on the Structural, Mechanical, Electronic Properties and Debye Temperature of Pd-Based Superalloy: First-principles Calculation. *Physica Status Solidi B: Basic Solid State Physics*, (2020) 2000490. (<https://doi.org/10.1002/pssb.202000490>)

■ Activities and Leadership

Summer 2016 Volunteering to teach students in poor villages in Hunan Province China

- Co-founding an volunteering team with 12 members
- Teaching various courses and playing games with them