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学位职称： 硕士/副教授

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主讲课程： 大学物理实验

科研方向： 材料物理



### 教育工作简历：

1999. 09–2003. 07	沈阳师范大学 物理学	本科生
2003. 09–2006. 07	沈阳师范大学 粒子物理与原子核物理	硕士研究生
2006. 07–2021. 12	黑龙江八一农垦大学 理学院	教师
2022. 01–现在	辽宁科技大学 理学院	教师

### 学术成果：

#### 【代表性学术著作、论文】

1. C.Y.Zuo, J.Wen, Y.L.Bai, First-principles investigation of N - Ag co-doping effect on electronic properties in p-type ZnO, *Chinese Physics B*, 19 (2010) 047101.
2. C.Y.Zuo, J.Wen, S.L.Zhu, C.Zhong, The effect of C - Al (Ga) codoping on p-type tendency in zinc oxide by first-principles, *Optical Materials*, 32 (2010) 595–598.
3. C.Y.Zuo, J.Wen, C.Zhong, First-principles study of the electronic structures and optical properties of C - F - Be doped wurtzite ZnO, *Journal of Semiconductors*, 33 (2012) 072001.
4. C.Y.Zuo, B.S.Chen, C.Zhong, J.H.Zhao, The structural, electronic, elastic and thermodynamic properties of V<sub>2</sub>AX (A = B, Al, Ga, In and Tl; X = C and N): A DFT calculation, *International Journal of Modern Physics B*, 33 (2019) 1950359.
5. C.Y.Zuo, C.Zhong, Theoretical study of mechanical, thermal and optical properties of a newly predicted tetragonal NaGaS<sub>2</sub>, *Solid State Communications*, 312 (2020) 113872.
6. C.Y.Zuo, C.Zhong, Screen the elastic and thermodynamic properties of MAX solid solution using DFT procedure: case study on (Ti<sub>1-x</sub>V<sub>x</sub>)<sub>2</sub>AlC, *Materials Chemistry and Physics*, 250 (2020) 123059.

7. P.Zhou, G.X.Wu, **C.Y. Zuo\***, L.Li, Z.Zheng, W.B. Zhang, G.B.Pan, F.Wang, Study on electronic structures and mechanical properties of new predicted orthorhombic  $Mg_2SiO_4$  under high pressure, *Journal of Alloys and Compounds*, 630 (2015) 11–22.

**【专利】**

1. 左春英。专利号：ZL201610832348.6，（激光辐照种子的辐射功率密度的调节方法）