

Kai Chen

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Education:

Zhejiang University, Master of Science in chemistry, 2019.9 – 2022.6

Wuhan University, Bachelor of Science in chemistry, 2013.9 – 2017.6

Research Experience:

Institute of Catalysis, Professor Renxian Zhou's group, Zhejiang University (2019.10 – 2022.6)

Three-way catalytic performance's study of Pt-Pd bimetallic catalyst supported by CeO₂-ZrO₂-La₂O₃ mixed oxides

Comparative study of three-way catalytic performance over Pd/CeO₂-ZrO₂-Al₂O₃ and Pd/La-Al₂O₃ catalysts

Fuel Cell and Electrocatalysis Lab, Professor Lin Zhuang's group, Wuhan University (2016.3 – 2017.6)

Computational study of novel hydrogen molecules

Green Catalysis Institute, Professor Aiwen Lei's group, Wuhan University (2014.9 – 2016.2)

Controlled synthesis of sulfides and sulfoxides

Teaching Experience:

Teaching assistant, Department of chemistry, Zhejiang University (2020.9 – 2021.1)

Fundamental chemistry experiments

Publications:

Three-way catalytic performance's study of Pt-Pd bimetallic catalysts supported by CeO₂-ZrO₂-La₂O₃ mixed oxides. (Under revising)

Kai Chen, Jie Wan, Jiansong Lin, Renxian Zhou, Comparative study of three-way catalytic performance over Pd/CeO₂-ZrO₂-Al₂O₃ and Pd/La-Al₂O₃ catalysts: new insights into microstructure and thermal stability, *Molecular Catalysis*, 2022, 526: 112361.

Ting Wang, **Kai Chen**, Renxian Zhou, Pt-Pd bimetallic effect in Pt_xPd_{1-x}/(Ce,Zr,La)O₂ catalysts for NO_x, HC and CO elimination, *Catalysis Science & Technology*, 2021, 11(8): 2782-2791.

Huamin Wang, Qingquan Lu, Chaohang Qian, Chao Liu, Wei Liu, **Kai Chen**, Aiwen Lei, Solvent-Enabled Radical Selectivities: Controlled Syntheses of Sulfoxides and Sulfides, *Angewandte Chemie*, 2016, 55(3), 1094-1097.