

所属学院 化学与分子工程学院

学科领域 工业催化

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## 个人简介

### 1) Education

1998.7: PhD, Industrial Catalysis, East China University of Science &amp; Technology, Shanghai

1995.7: MSc, Physical Chemistry, East China University of Science &amp; Technology, Shanghai

1992.7: BE, Applied Chemistry, East China University of Science &amp; Technology, Shanghai

### 2) Academic Experience

September 2005 – present

Research Institute of Industrial Catalysis, East China University of Science &amp; Technology

Professor/Director

September 2000 – August 2005

Research Institute of Industrial Catalysis, East China University of Science &amp; Technology

Associate Professor/Vice-Director

July 1998 – August 2000

Research Institute of Industrial Catalysis, East China University of Science &amp; Technology

Assistant Professor

May 2003 – February 2004

Institut de Recherches sur la Catalyse, Centre National de la Recherche Scientifique, France

Postdoctoral Researcher

## 研究方向

Industrial Catalysis, Environmental Catalysis, Novel Catalytic Materials

## 研究成果及主要发表文章

1. Hao Liu, Xian Li, Qiguang Dai, Hailin Zhao, Guangtao Chai, Yanglong Guo\*, Yun Guo, Li Wang, Wangcheng Zhan\*. Catalytic oxidation of chlorinated volatile organic compounds over Mn-Ti composite oxides catalysts: Elucidating the influence of surface acidity. Appl Catal B-Environ, 2021, 282: 119577
2. Bo Lin, Aiyong Wang, Yanglong Guo\*, Yuanqing Ding, Wangcheng Zhan\*, Li Wang, Yun Guo, Feng Gao\*. Elimination of NO Pollutant in Semi-enclosed Spaces over Sodium-promoted Cobalt Oxyhydroxide (CoOOH) by Oxidation and Adsorption Mechanism. Appl Catal B-Environ, 2020, 279: 119404
3. Chuanhui Zhang\*, Haijie Cao, Chao Wang, Maoxia He, Wangcheng Zhan, Yanglong Guo\*. Catalytic mechanism and pathways of 1, 2-dichloropropane oxidation over LaMnO<sub>3</sub> perovskite: An experimental and DFT study. J Hazard Mater, 2021, 402: 123473
4. Fengying Huang, Dongsheng Ye, Xiaohan Guo, Wangcheng Zhan\*, Yun Guo, Li Wang, Yunsong Wang, Yanglong Guo\*. Effect of ceria morphology on the performance of MnO<sub>x</sub>/CeO<sub>2</sub> catalysts in catalytic combustion of N, N-dimethylformamide. Catal Sci Technol, 2020, 10(8), 2473-2483
5. Yu Sun, Pascal Cop, Igor Djerdj, Xiaohan Guo, Tim Weber, Omeir Khalid, Yanglong Guo\*, Bernd M. Smarsly\*, Herbert Over\*. CeO<sub>2</sub> Wetting Layer on ZrO<sub>2</sub> Particle with Sharp Solid Interface as Highly Active and Stable Catalyst for HCl Oxidation Reaction. ACS Catal, 2019, 9(12): 10680-10693
6. Wenchao Hua, Chuanhui Zhang, Yanglong Guo\*, Guangtao Chai, Chao Wang, Yun Guo, Li Wang, Yunsong Wang, Wangcheng Zhan\*. An efficient SnMn<sub>1-y</sub>O<sub>x</sub> composite oxide catalyst for catalytic combustion of vinyl chloride emissions. Appl Catal B-Environ, 2019, 255: 117748
7. Chenwei Li, Yu Sun, Franziska Hess, Igor Djerdj, Joachim Sann, Pascal Voepel, Pascal Cop, Yanglong Guo\*, Bernd M. Smarsly\*, Herbert Over\*. Catalytic HCl oxidation reaction: Stabilizing effect of Zr-doping on CeO<sub>2</sub> nano-rods. Appl Catal B-Environ, 2018, 239: 628-635
8. Chenwei Li, Franziska Hess, Igor Djerdj, Guangtao Chai, Yu Sun, Yanglong Guo\*, Bernd M. Smarsly\*, Herbert Over\*. The stabilizing effect of water and high reaction temperatures on the CeO<sub>2</sub>-catalyst in the harsh HCl oxidation reaction. J Catal, 2018, 357: 257-262
9. Aiyong Wang, Yilin Wang, Eric D. Walter, Ravi K. Kukkadapu, Yanglong Guo\*, Guanzhong Lu, Robert S. Weber, Yong Wang, Charles H.F. Peden, Feng Gao\*. Catalytic N<sub>2</sub>O decomposition and reduction by NH<sub>3</sub> over Fe/Beta and Fe/SSZ-13 catalysts. J Catal, 2018, 358: 199-210
10. Chao Wang, Chengcheng Tian, Yanglong Guo\*, Zhendong Zhang, Wenchao Hua, Wangcheng Zhan, Yun Guo, Li Wang, Guanzhong Lu\*. Ruthenium oxides supported on heterostructured CoPO-MCF materials for catalytic oxidation of vinyl chloride emissions. J Hazard Mater, 2018, 342: 290-296
11. Chenwei Li, Yu Sun, Igor Djerdj, Pascal Voepel, Carl-Christian Sack, Tobias Weller, Ruediger Ellinghaus, Joachim Sann, Yanglong Guo\*, Bernd M. Smarsly\*, Herbert Over\*. Shape-Controlled CeO<sub>2</sub> Nanoparticles: Stability and Activity in the Catalyzed HCl Oxidation Reaction. ACS Catal, 2017, 7(10): 6453-6463
12. Chao Wang, Chuanhui Zhang, Wenchao Hua, Yanglong Guo\*, Guanzhong Lu, Sonia Gil, Anne Giroir-Fendler\*. Catalytic oxidation of vinyl chloride emissions over Co-Ce composite oxide catalysts. Chem Eng J, 2017, 315: 392-402
13. Aiyong Wang, Yanglong Guo\*, Feng Gao\*, Charles H.F. Peden. Ambient-temperature NO oxidation over amorphous CrO<sub>x</sub>-ZrO<sub>2</sub> mixed oxide catalysts: Significant promoting effect of ZrO<sub>2</sub>. Appl Catal B-Environ, 2017, 202: 706-714
14. Chuanhui Zhang, Chao Wang, Sonia Gil, Antoinette Boreave, Laurence Retailleau, Yanglong Guo\*, Jose Luis Valverde, Anne Giroir-Fendler\*. Catalytic oxidation of 1, 2-dichloropropane over supported LaMnO<sub>x</sub> oxides catalysts. Appl Catal B-Environ, 2017, 201: 552-560
15. Chuanhui Zhang, Chao Wang, Wenchao Hua, Yanglong Guo\*, Guanzhong Lu, Sonia Gil, Anne Giroir-Fendler\*. Relationship between catalytic deactivation and physicochemical properties of LaMnO<sub>3</sub> perovskite catalyst during catalytic oxidation of vinyl chloride. Appl Catal B-Environ, 2016, 186: 173-183
16. Kanka Feng, Chenwei Li, Yanglong Guo\*, Wangcheng Zhan, Binqun Ma, Binwu Chen, Maoquan Yuan, Guanzhong Lu\*. An efficient Cu-K-La/γ-Al<sub>2</sub>O<sub>3</sub> catalyst for catalytic oxidation of hydrogen chloride to chlorine. Appl Catal B-Environ, 2015, 164: 483-487