

# 王爱琴 研究员

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## 学习及工作经历

1997-2001 中国科学院大连化学物理研究所，博士

2003-2005 台湾大学，博士后

2009- 中国科学院大连化学物理研究所，研究员

## Education and Work Experiences

1997-2001 PhD, Dalian Institute of Chemical Physics

2003-2005 Postdoctoral Fellow, National Taiwan University

2009- Professor, Dalian Institute of Chemical Physics

## 奖励及荣誉

2009 年获中国科学院杰出科技成就奖(主要完成人)

2013 年获大连化物所科技创新奖

## Awards and Honors

Outstanding Science and Technology Achievement Prize of the CAS (2009)

Innovation Award of Science and Technology of DICP (2013)

## 研究兴趣

生物质催化转化；亚纳米及单原子分散金属催化剂

## Research Interests

Catalytic conversion of biomass; catalysis by sub-nanometer and single-atom-dispersed metals.

## 研究兴趣

从事生物质催化转化以及高分散金属催化剂的制备研究。

Catalytic conversion of biomass; subnano and single-atom catalysis.

### 代表性文章 / Representative Publications

1. Discriminating catalytically active FeN<sub>x</sub> species of atomically dispersed Fe–N–C catalyst for selective oxidation of the C–H bond. *J. Am. Chem. Soc.*, 139 (2017) 10790.
2. Production of primary amines by reductive amination of biomass-derived aldehydes/ketones. *Angew. Chem. Int. Ed.*, 56 (2017) 3050.
3. FeO<sub>x</sub>-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes, *Nat. Commun.*, 5 (2014) 5634.
4. One-pot conversion of cellulose to ethylene glycol with multifunctional tungsten-based catalysts, *Acc. Chem. Res.*, 46 (2013) 1377.
5. Understanding the synergistic effects of gold bimetallic catalysts, *J. Catal.*, 308 (2013) 258.