



Xin Zhao

Theoretical Chemistry and Physics

Education

02/2015 - present, PhD candidate (will have my PhD defense in early October)

Institute for Theoretical Physics, Vienna University of Technology, Austria.
Working on the FWF-project P27272 Electrochemical interference, in the group
of Robert Stadler.

09/2014 - 02/2015, Internship

Institute for Molecules and Materials, Radboud University Nijmegen, Netherlands.

09/2011 - 07/2014, Master candidate

College of Chemistry, Beijing Normal University, Beijing, China.

09/2007 - 06/2011, Bachelor candidate

College of Materials and Chemical Engineering, Hangzhou Normal University, Zhejiang, China. (passed with distinction)

Awards

2008 - 2010, Outstanding Student Scholarship, Second prize

Awarded by Hangzhou Normal University.

2008 - 2010, The Scott Katyn Fang Scholarship, First prize

Awarded by Hangzhou Normal University.

2008 - 2010, Challenge Cup Experimental Skills Competition, Third Prize

Awarded by Hangzhou Normal University.

Specialized Skills / Background

- o Code: GPAW Gaussian
CRYSTAL
 - o Theories: Electron Transport
Theoretical Chemistry
Solid State Physics

Language Skills

CHINESE: Native

ENGLISH: Fluent

GERMAN: B1

(Interested, still keep learning)

IT Skills

Programming

- o Python
 - o Fortran

Operating Systems

- Linux
 - iOS
 - Windows

Scripting

- Bash
 - Latex

Conferences / Workshops

“Many Paths to Interference”

Dresden, Germany, the conference is focus on the specific field of electron transport (poster contribution).

“8th International Conference on Molecular Electronics”

Paris, France, a big International conference assembled both theoreticians and experimentalists (poster contribution).

“Section Spectroscopy and Theory of the Council for Chemical Science (CW)”

(Theoretical Chemistry and Spectroscopy Graduate Course)

Han-sur-Lesse, Belgium, a one-week school experience focus on the theoretical knowledge.

Publications

“Quantum interference in coherent tunneling through branched molecular junctions containing ferrocene centers”

Xin Zhao, Georg Kastlunger and Robert Stadler, Physical Review B 96, 085421 (2017).

“Destructive quantum interference in electron transport: A reconciliation of the molecular orbital and the atomic orbital perspective”

Xin Zhao, Victor Geskin and Robert Stadler, The Journal of Chemical Physics, 146, 092308 (2017).

“Crystal orbital study on the double walls made of nanotubes encapsulated inside zigzag carbon nanotubes”

Xin Zhao, Weiye Qiao, Yuliang Li and Yuanhe Huang, Journal of Solid State Chemistry, 221, 102-108 (2015).

“Adsorption configuration prediction for Ferrocene compounds with different anchor groups in single-molecule junctions”

Xin Zhao, Robert Stadler, in submission (2018).

“Electron transport study in coherent tunneling through cyclic Ru/Os(PPh_2)₈(C₂H₄)₄ bis(pyridylacetylide) complexes”

Xin Zhao, Robert Stadler, in preparation (2018).