



University of Groningen

The influence of	conjugation i	in molecul	lar tunneling	junctions and	I nanofabrication
Zhang, Yanxi					

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version Publisher's PDF, also known as Version of record

Publication date:

Link to publication in University of Groningen/UMCG research database

Citation for published version (APA): Zhang, Y. (2018). The influence of conjugation in molecular tunneling junctions and nanofabrication. [Groningen]: University of Groningen.

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

Take-down policyIf you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): http://www.rug.nl/research/portal. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

Download date: 21-05-2019

Propositions

Accompanying the thesis

The Influence of Conjugation in Molecular Tunneling Junctions and Nanofabrication

Yanxi Zhang

- 1. Molecular Electronics is an exciting field for the research.
- 2. It is easy and quick to form molecular junctions using eutectic Gallium-Indium (EGaIn) as a top contact (Chapter 1).
- 3. SAMs comprising 4-([2,2':5',2":5",2"'-quaterthiophen]-5-yl)butane-1-thiol (T4C4) are shown to be mechanically and electrically robust (Chapter 2).
- 4. The electron-withdrawing quinones suppress the tunneling charge transport more than the cross-conjugation itself (Chapter 3).
- 5. Nanoskiving is an unconventional and powerful way to fabricate ultrathin objects at the nanometer scale (Chapter 4 and 5).
- 6. Some discoveries and inventions were overlooked during their age, but they eventually earned the recognition and prominence.
- 7. Scientific research is mobile and global, and it requires the exchange of ideas.
- 8. Failure is nothing to fear. It makes you stronger and pushes you forward. Just take action.