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The influence of conjugation in molecular tunneling junctions and nanofabrication

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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.