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Stellingen

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The Fabrication of Nanogap Electrodes Using Nanoskiving

Parisa Pourhossein Aghbolagh

- (1) Refining the meaning of “simple” in nanofabrication may help to overcome the technological limitations in molecular electronics (ME). (This thesis)
- (2) Bottom-up nanofabrication enables the fabrication of sub-3 nm nanogap electrodes in which molecules are defining the smallest dimension of the nanodevices, allowing Ångstrom-level resolution in gap size. (Chapter 3)
- (3) It is very challenging to characterize objects with single nanometer features that span several millimeters.
- (4) Photo-gating the tunneling junctions results in fast and reversible changes in current. (Chapter 6)
- (5) Having a picture of potential applications is a good motivation when you are doing nanofabrication. (Chapters 5, 6)
- (6) The ability to multitask is one of the important skills to develop when you are doing a PhD.
- (7) Life is full of pathways, but it is up to us to create our own.
- (8) Patience is one of the main ingredients of research.