

My research interest mainly focus on the surface physics and chemistry · Surface atomic and molecular dynamics. Recent achievement is in preparation and characterization of single-atom tips. We have carried out various of single-atom tips, such as: Noble metal covered W or Mo (111) tips,. Active gases induce Ir (210) tips, and so on.

Techniques used in study

Field Ion Microscope(FIM);
Scanning Tunneling Microscope (STM) ;
Low Energy Electron Diffraction (LEED);
Evaporation Deposition.

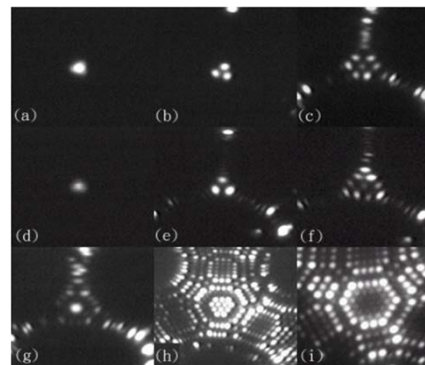
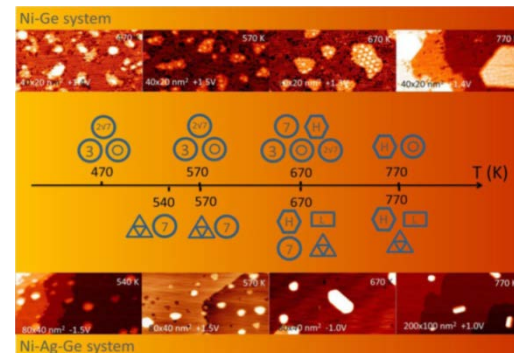
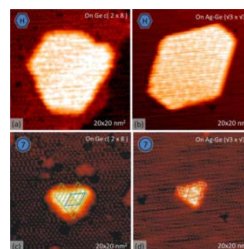
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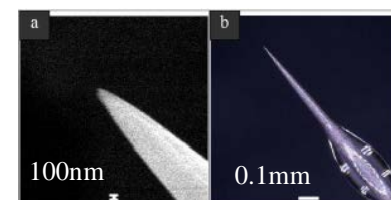
Funding:
Ministry of Science and Technology
National Taiwan Normal University



Shape control of nano-sized islands in synthesis



Growth and application of single atom tips



Publications (corresponding author)

- “Shape of Ni-containing nanoislands grown on an Ag-terminated Ge(111) surface”(2020), Surface & Coatings Technology, 398, 126079.
- “Single crystalline silicene consist of various superstructures using a flexible ultrathin Ag (111) template on Si (111)” (2018), Semiconductor Science and Technology,33, 75004 .
- “Direct view of silicon initial growth on metal surfaces” (2016), Thin Solid Films, 618, 81-83 .

