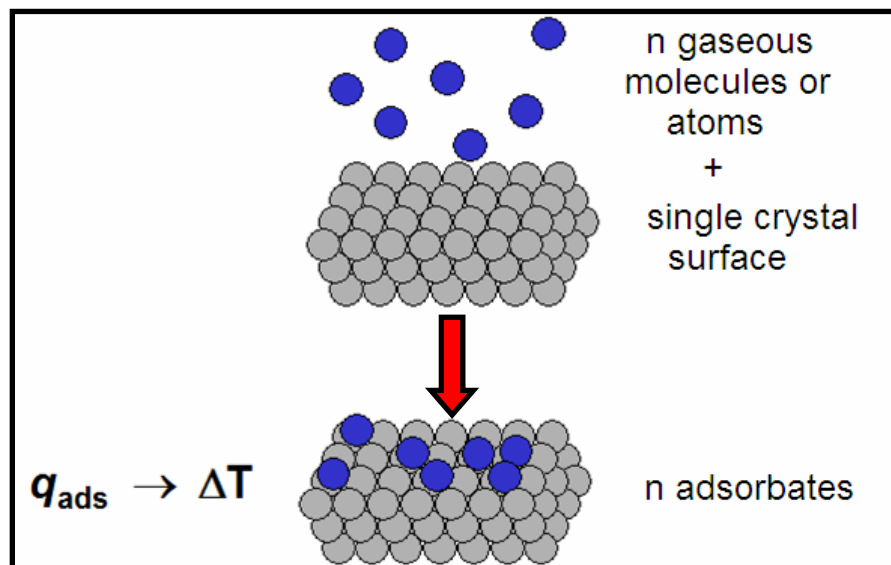


Nanoparticles on Metal Oxides: Energetics and Reactivity

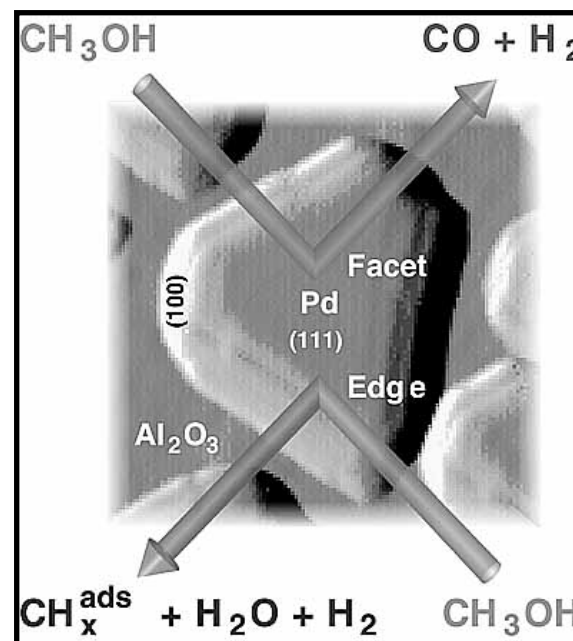
Jason Farmer
IGERT Research Rotation
Chemistry
12/07/2006

Two sides to this project.

Energetics (UW)



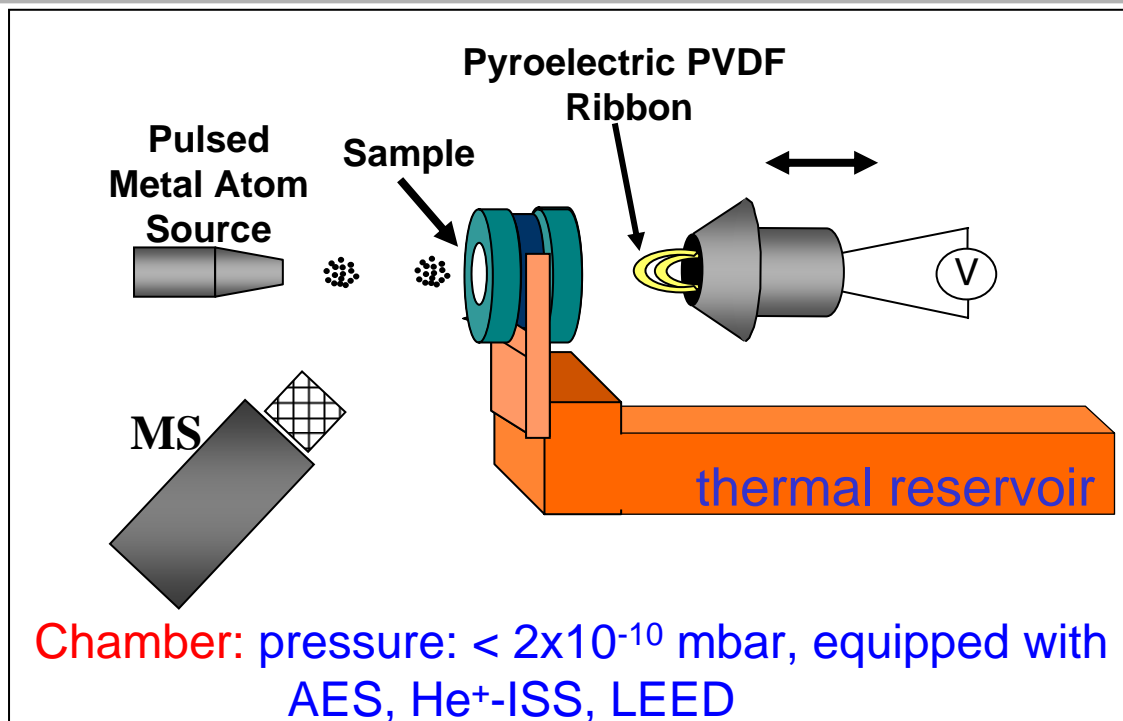
Reactivity (FHI)



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Nanoparticles on Metal Oxides: Energetics and Reactivity



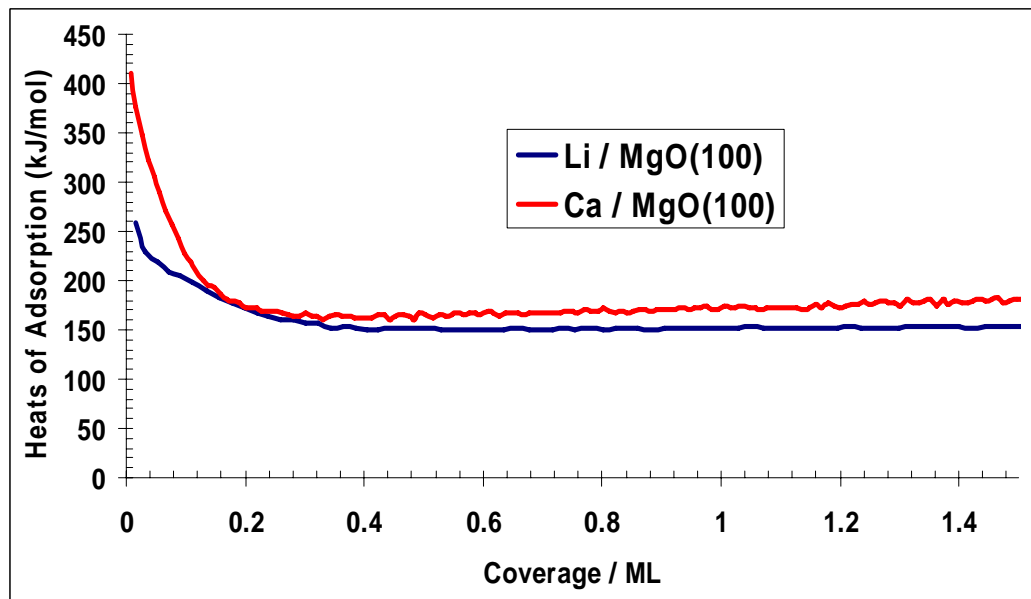
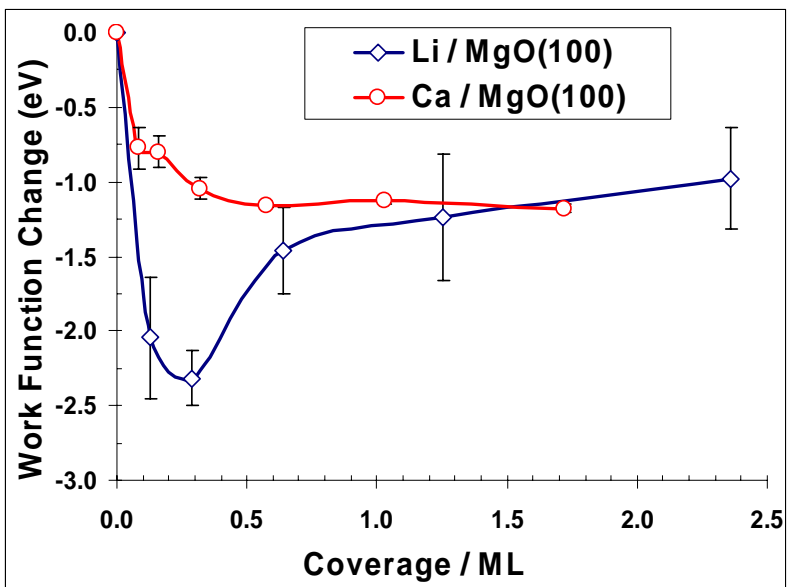
Methodology:

- Grow metal oxide film.
- Verify quality of film.
- Perform a measurement:
 - Heats of adsorption of metal atoms.
 - Desorption of metal atoms from surface.
 - Coverage of metal atoms on the surface.
 - Check for changes in crystallinity of the film.



Nanoparticles on Metal Oxides: Energetics and Reactivity

Accomplishments:



Collaboration Status:

- Staff scientist from FHI visiting UW in March.
- Will spend four months at FHI.



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