



***WELCOME TO
NANOWORLD***

TODAY BAKU LOOKS LIKE THIS



Who knows may be thanks to nanotechnology in future Baku will be like this?



Damascus blade



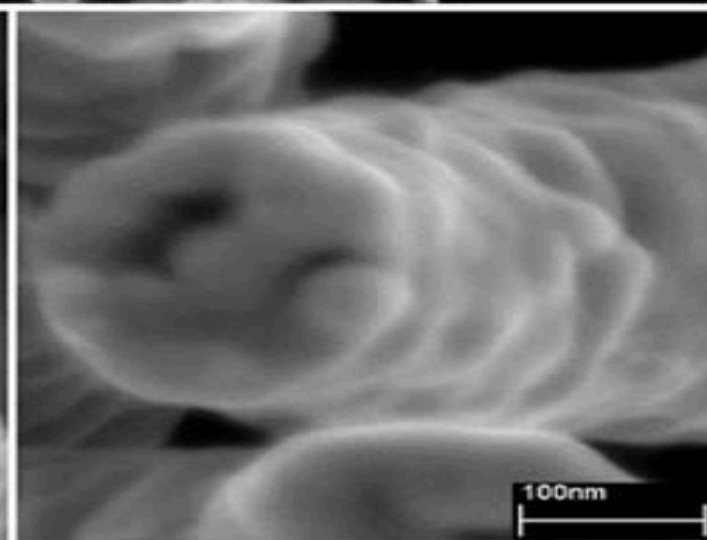
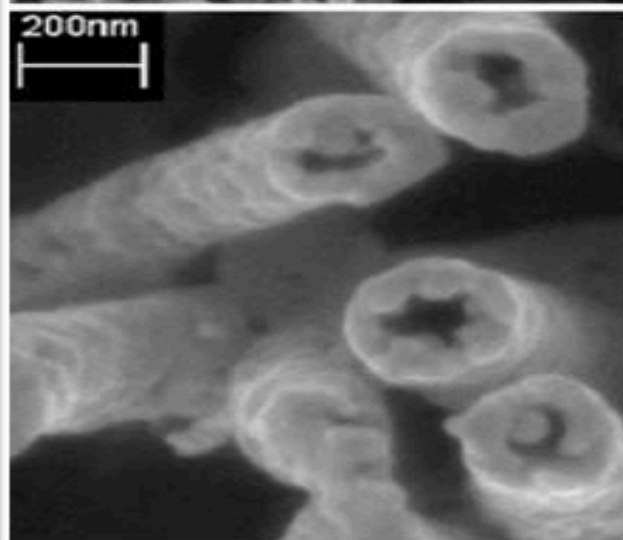
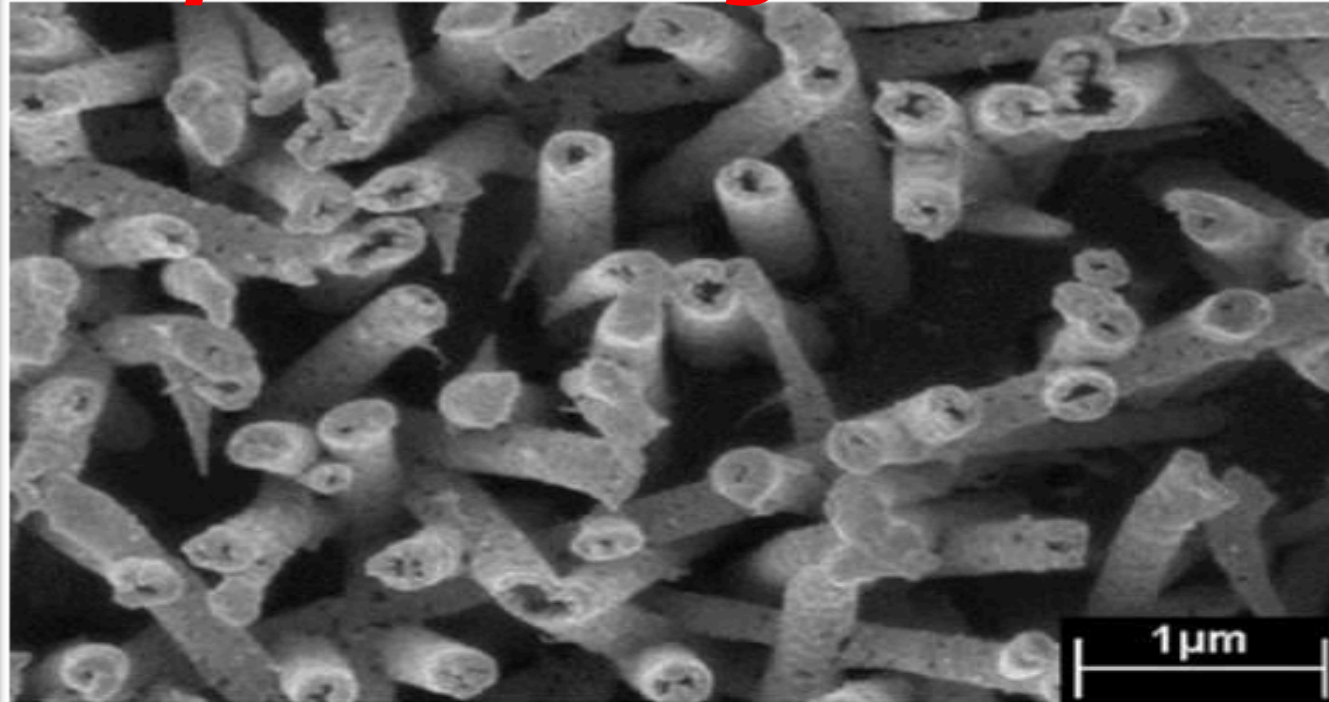
Microscope image of Damascus steel



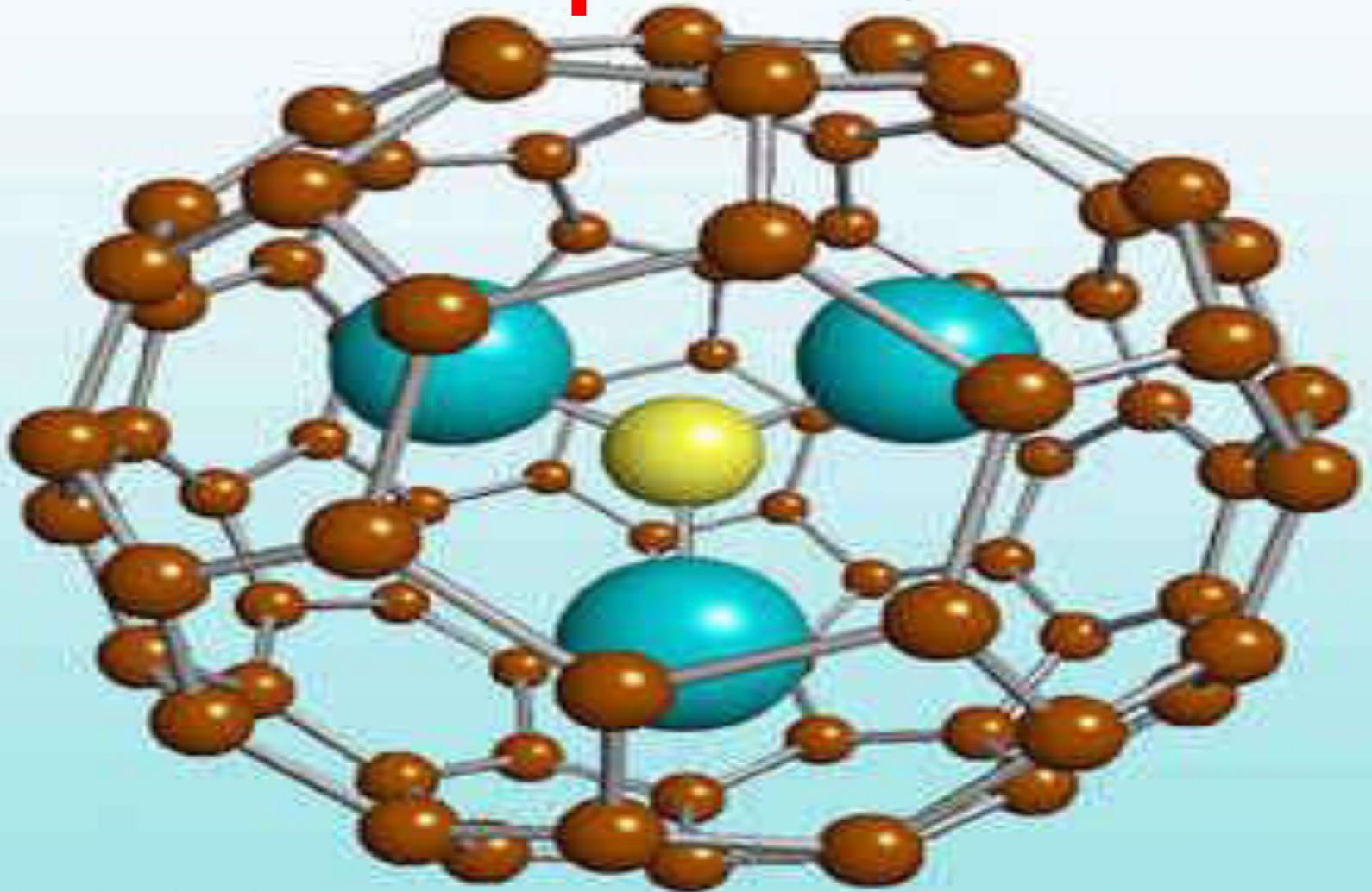
Lycurgus bowl



Microphotos of gold nanotubes

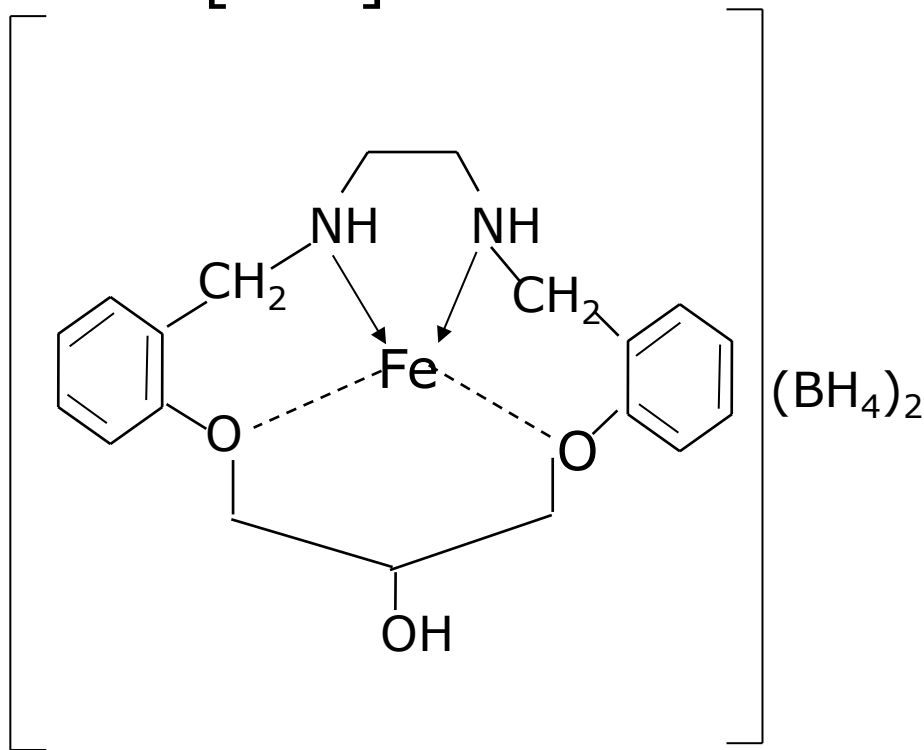


Model of nanoparticle encapsulation

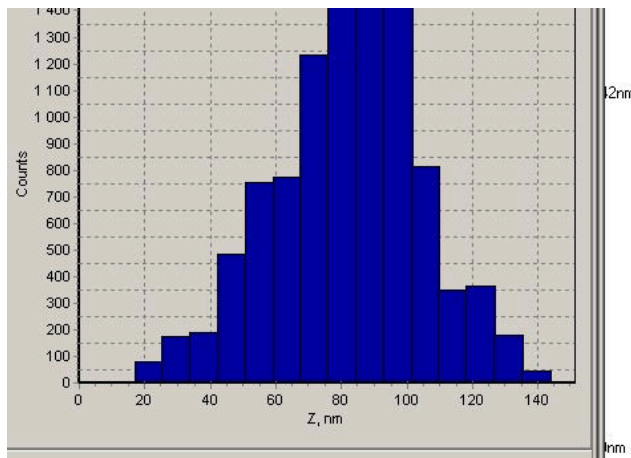
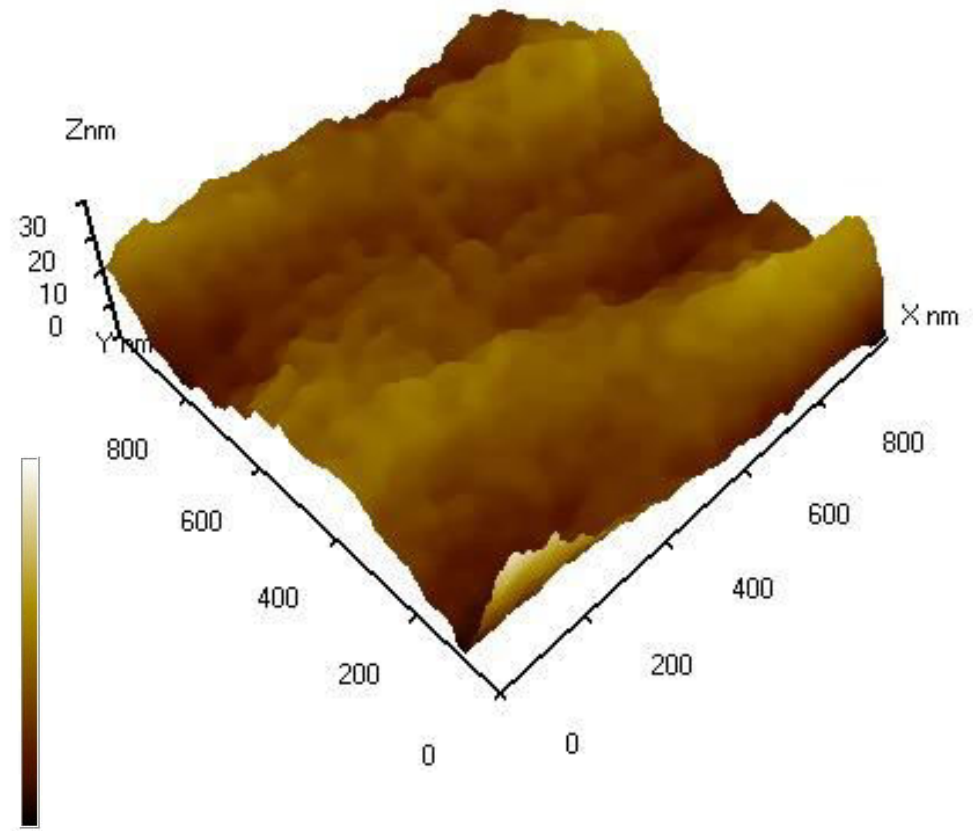
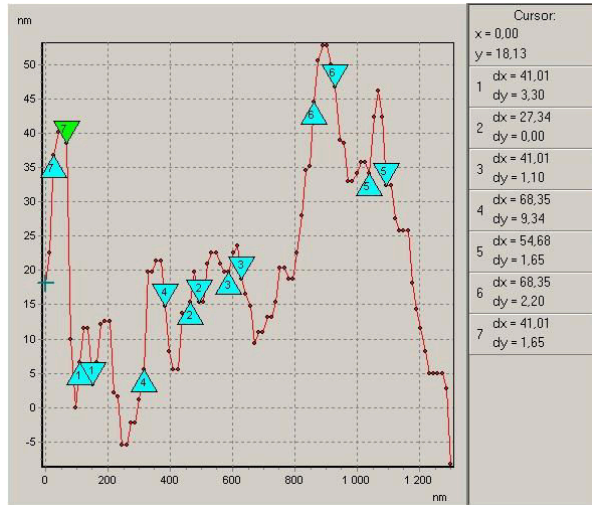


Preparation of iron nanoparticles and its stabilizing by crown ethers

- $\text{Fe}[\text{BH}_4]_2 + \text{CW} \rightarrow \text{FeCW}[\text{BH}_4]_2$
- $\text{FeCW}[\text{BH}_4]_2 \rightarrow \text{CW} + \text{Fe} + 2\text{BH}_3 + \text{H}_2$

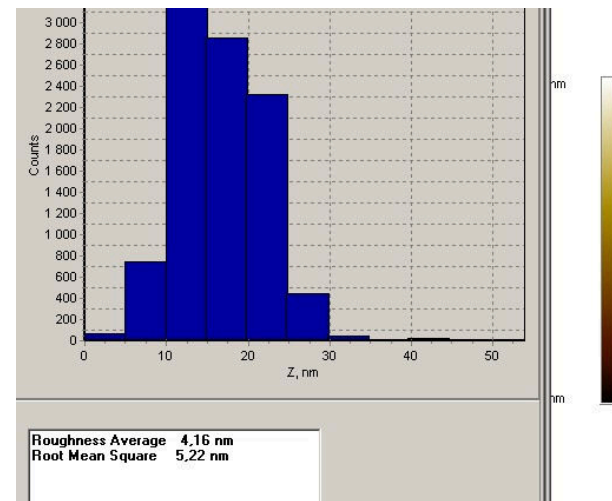
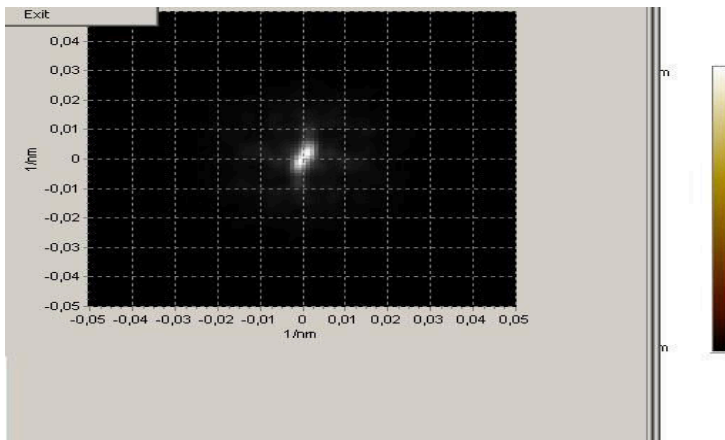
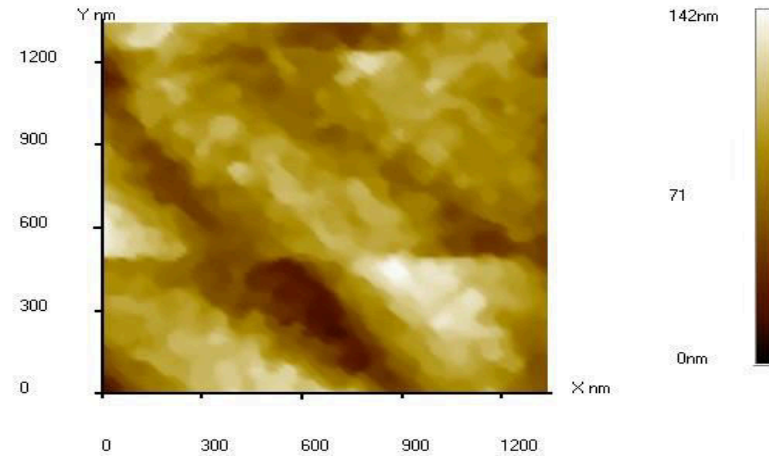
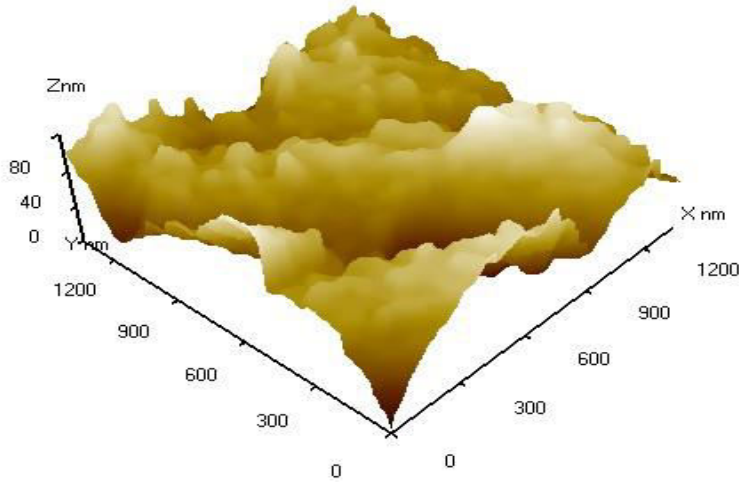


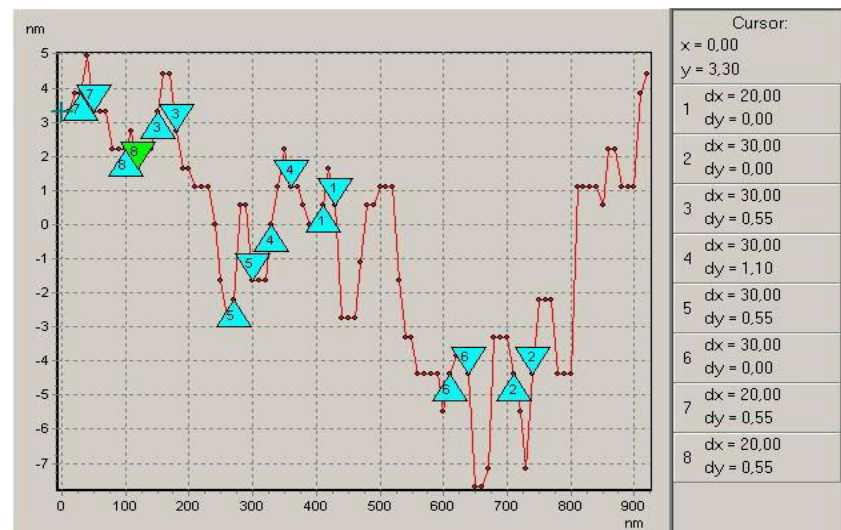
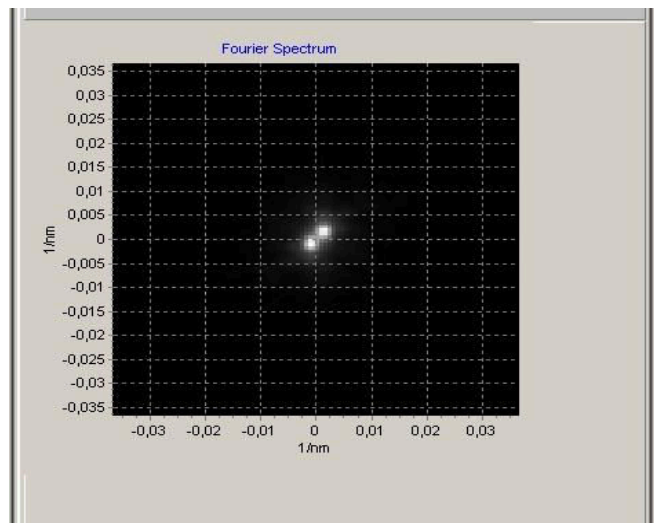
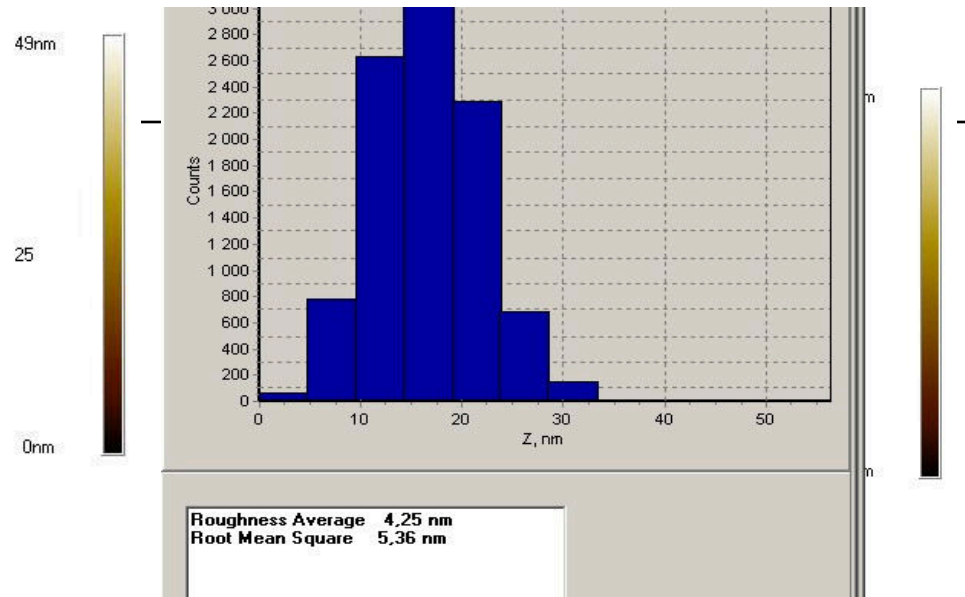
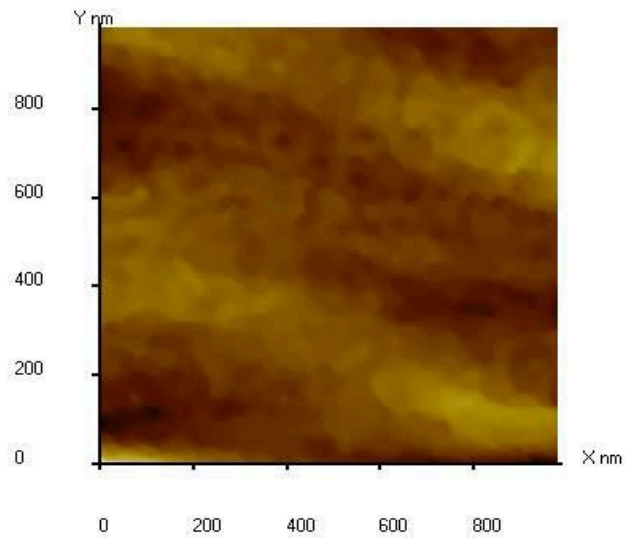
AFM study of iron nanoparticles



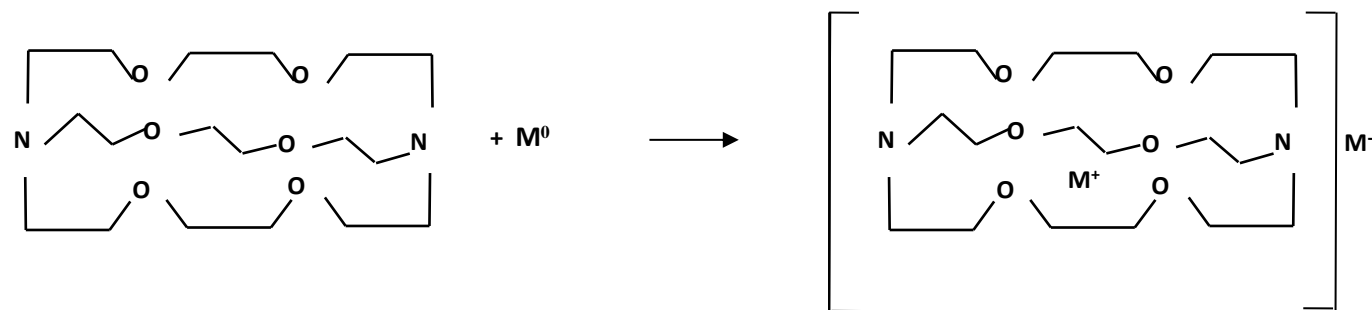
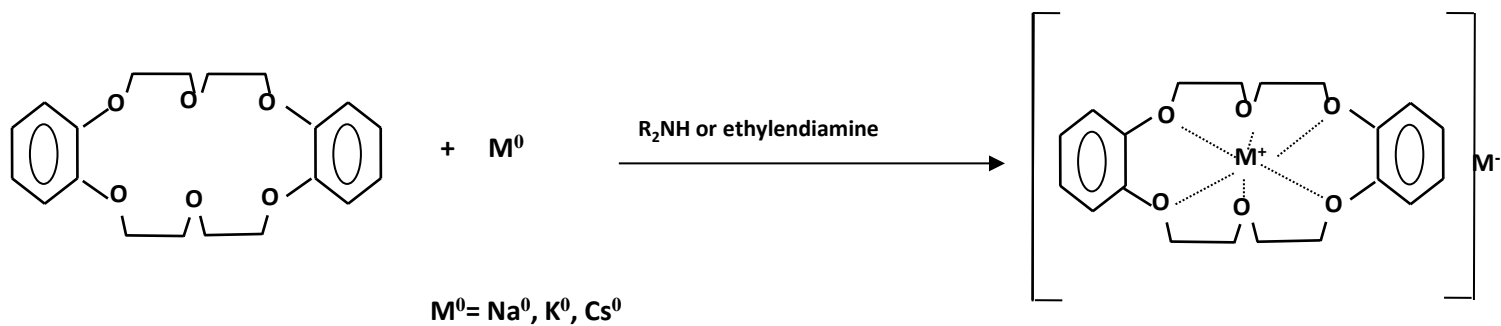
Roughness Average 17,85 nm
Root Mean Square 22,54 nm

3-D, 2-D images of Fe nanoparticles

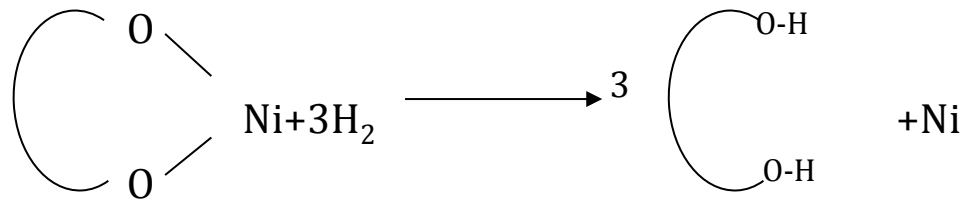




Capsulation of metal nanoparticles by crown ethers and cryptands



Hydrogenation process



Organometallic
Nickel compound

Nickel nanoparticle

