

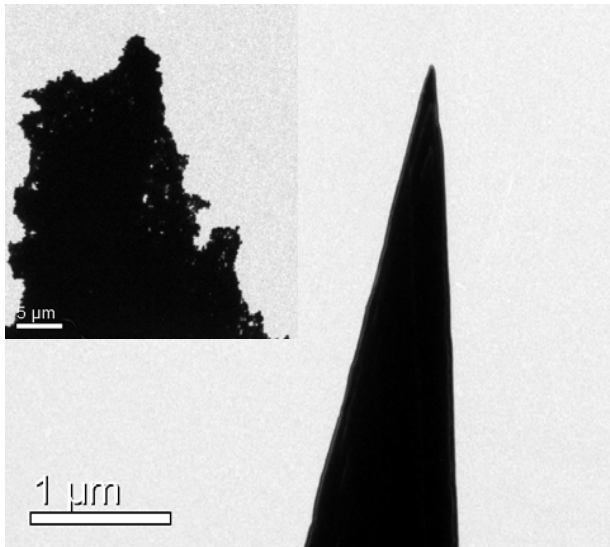
Chemically Selective Scanning Tunneling Microscopy

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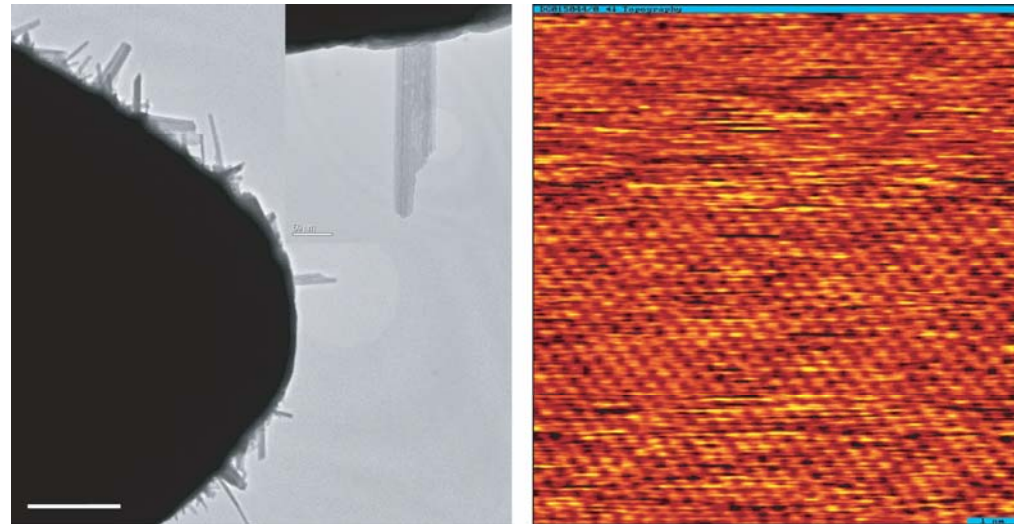
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- STM with Chemical Contrast
 - ◆ Functionalized Carbon Nanotube STM tips
 - ◆ Development of sharper Au STM tips for modification with self-assembled monolayers

- MAJOR OBSERVATIONS
 - ◆ Successful imaging of HOPG with CNTs grown on W STM tips
 - ◆ Development of significantly sharper etched Au STM tips



Significant improvement in Au STM tip sharpness and smoothness



Left, TEM image of carbon nanotube STM tip following imaging of graphite. At right, STM image of graphite.