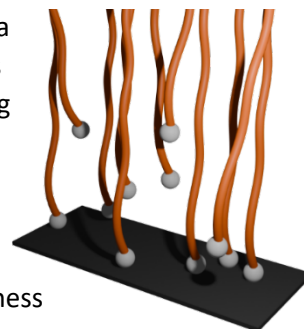


THESIS OR SEMESTER PROJECT

Synthesiz of polyaromatic brushes from silica surfaces

Organic thin films consisting of polymer brushes either grafted from or to a surface could be used in a big variety of applications including membranes for fuel cells and water purification as well biosensing. Polymers containing aromatic groups are especially good for the last example. Within this project, aromatic polyamides will be synthesized, followed by the linkage of these molecules to a silicon surface using 'grafting to' techniques. Varying analytical techniques like NMR, ellipsometry and AFM will be conducted to prove the successful synthesis and analysing the responsiveness of the brushes.



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