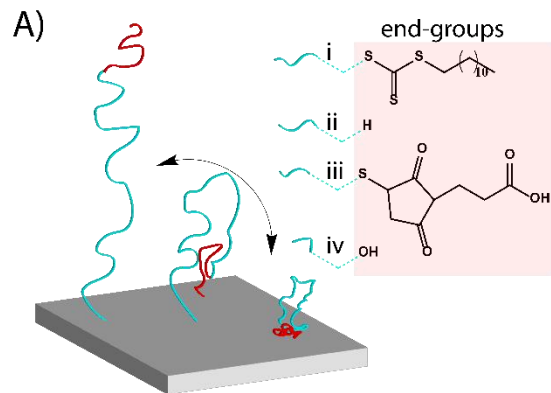


Functional Polymer Architectures

Question:

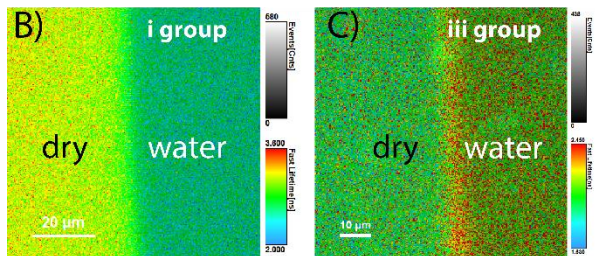
Effect of end-groups on fluorescent polymer brush conformational transitions



Polymer brushes with integrated conformational fluorescence offer great potential as sensing materials. However, the end-groups on polymer brushes can interfere with the movement of polymer chains (stretching / collapsing), which can affect the fluorescence output. This thesis will examine the effects of end-groups on this fluorescence output.

Skills:

- Precision polymer brush synthesis
- Confocal microscopy
- Fluorescence lifetime imaging microscopy



We look forward to your response!

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2 Opportunity for a Bachelor thesis

Q. A., Besford*, et al., *ACS Nano* **2022**, *16*, 3383-3393; M. Fromel, et al., *ACS Appl. Polym. Mater.* **2021**, *3*, 5291-5301

