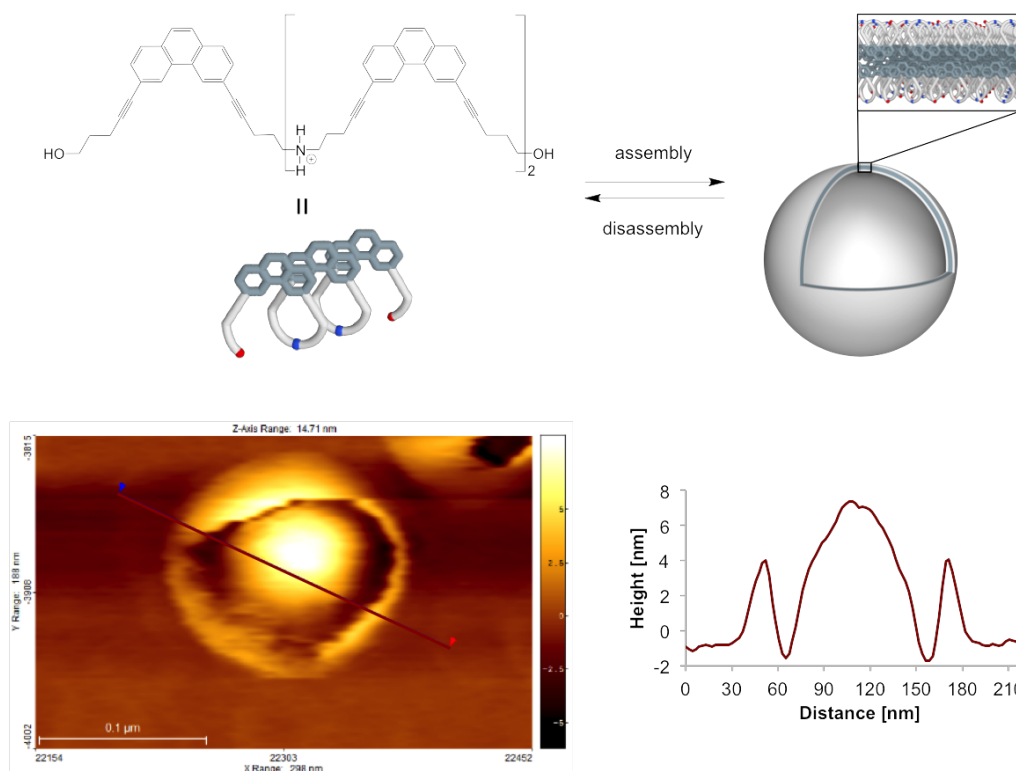


Multilayered Vesicles Formed by Polyaromatic OligoaminesJ. Jevrić¹, S. M. Langenegger¹, R. Häner^{1*}¹University of Bern

Supramolecular phenanthrene polymers with a negative charged phosphate backbone have been synthesized in our group.^[1,2] These assembled oligomers can act as light harvesting antennas. Herein we replaced the negative charged phosphate backbone by a positive charged amine one and analyzed the aggregation behavior and light harvesting properties. The self-assembly of 1,8-disubstituted amine-linked phenanthrene trimers in aqueous solution formed mono- and even multilayered vesicles based on atomic-force microscopy. The incorporation of pyrene into the vesicles allows an investigation of light harvesting properties.



[1] C. B. Winiger, S. Li, G. R. Kumar, S. M. Langenegger, R. Häner, *Angew. Chem. Int. Ed.*, **2014**, 53, 13609-13613.

[2] C. D. Bösch, S. M. Langenegger, R. Häner, *Angew. Chem. Int. Ed.*, **2016**, 55, 9961-9964.