

USF NEXUS INITIATIVE 2018 AWARD RECIPIENT

Xiaopeng Li

Investigation of Surface Self-assembly of Giant Supramolecules by Scanning Tunneling Microscope (STM) and Atomic Force Microscopy (AFM)

The weakly bound and highly dynamic features of supramolecules limit the study using conventional characterization methods. In this proposed study, Li lab at USF will collaborate with Prof. Bingqian Xu in the College of Engineering at University of Georgia to study the self-assembly a series of giant supramolecules on different surfaces using Scanning Tunneling Microscope (STM) and Atomic Force Microscopy (AFM). If successful, our research is poised to refresh the design of new synthetic materials with molecular level precision through further understanding of the relationship between fractal geometry and supramolecular chemistry.

Partnerships:

Bingqian Xu, Ph.D., Professor
University of Georgia (Athens, Georgia)



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