

Supplementary Materials

Low-fouling characteristics of ultrathin zwitterionic cysteine SAMs

Peter Lin,[†] Tsung-Liang Chuang,[‡] Paul Z. Chen,[†] Chii-Wann Lin,[‡] and Frank X. Gu^{,‡,§}*

[†]Department of Chemical Engineering, Waterloo Institute for Nanotechnology, University of Waterloo, Waterloo, Ontario N2L 3G1, Canada

[‡]Graduate Institute of Biomedical Engineering, Department of Electrical Engineering, National Taiwan University, Taipei 106, Taiwan

[§]Department of Chemical Engineering & Applied Chemistry, University of Toronto, Toronto, Ontario M5T 3A1, Canada

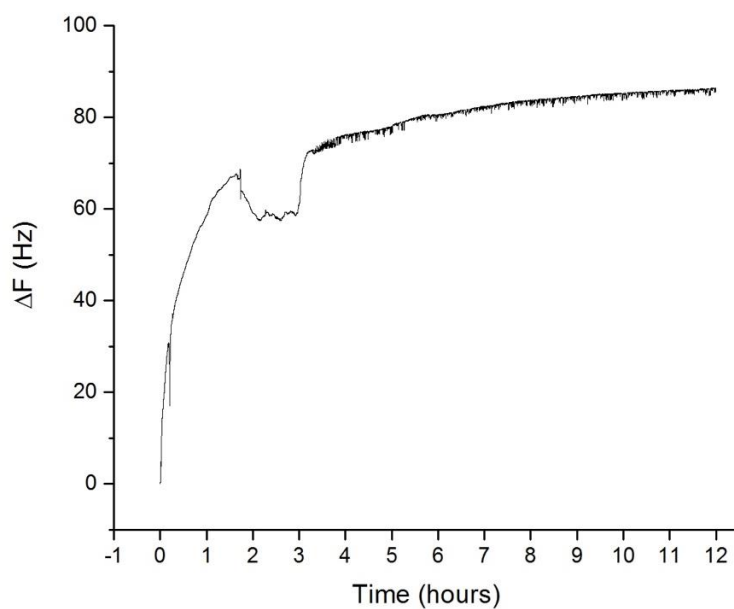


Figure S1. PBS rinse following cysteine SAM formation. The QCM results indicate that physisorbed cysteine molecules are continually removed during the 12 h of post-exposure PBS rinse. The sudden deviation in the response between 1.5 h and 3 h is most likely caused by an artifact response in the system.

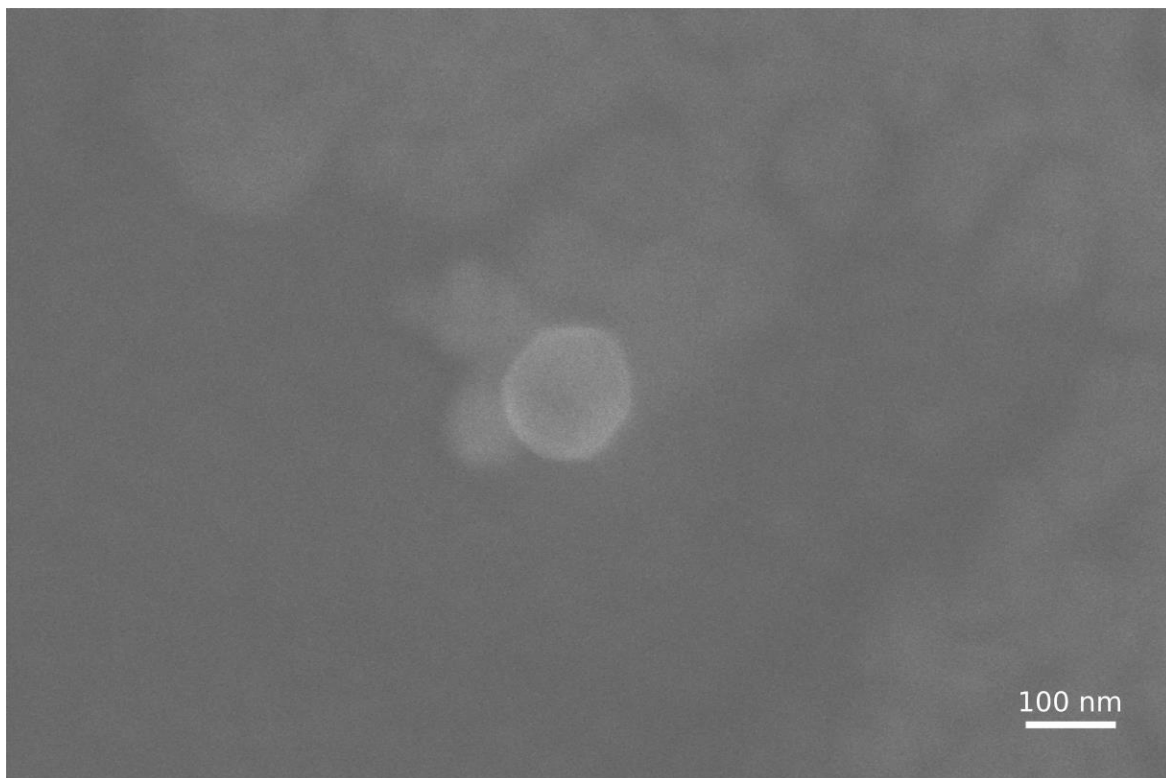


Figure S2. SEM image of a characteristic spherical BSA cluster.