

Polyviologen synthesis by self-assembly assisted grafting

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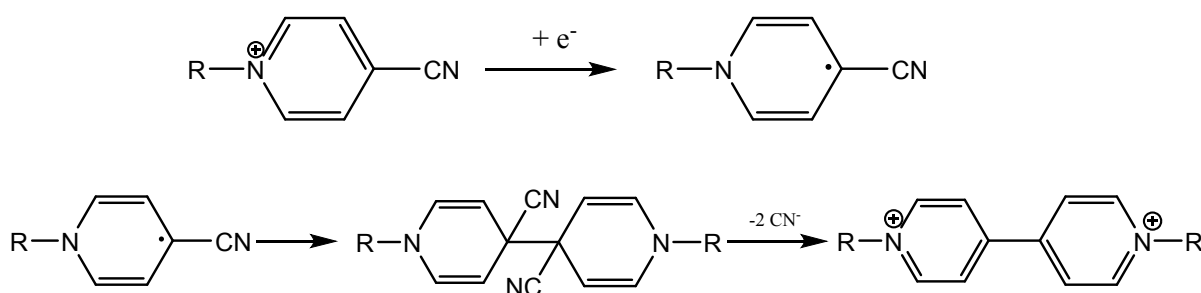
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Scheme S1. Electrochemical synthesis of viologen unit by coupling two cyanopyridine rings.

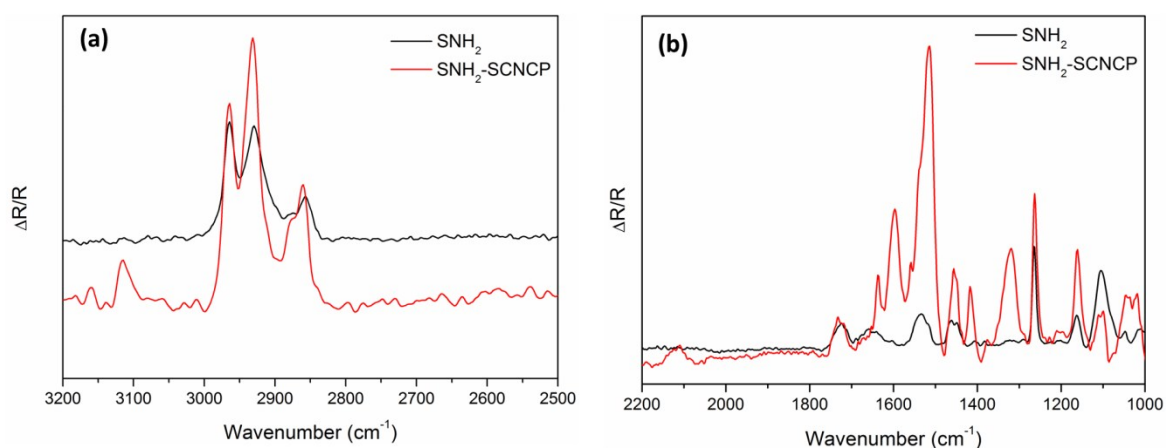


Figure S1. PM-IRRAS spectra of SAMs of SNH_2 and $\text{SNH}_2\text{-SCNCP}$ on gold in wavenumber regions (a) 3200 to 2500 cm^{-1} and (b) 2200 to 1000 cm^{-1} .

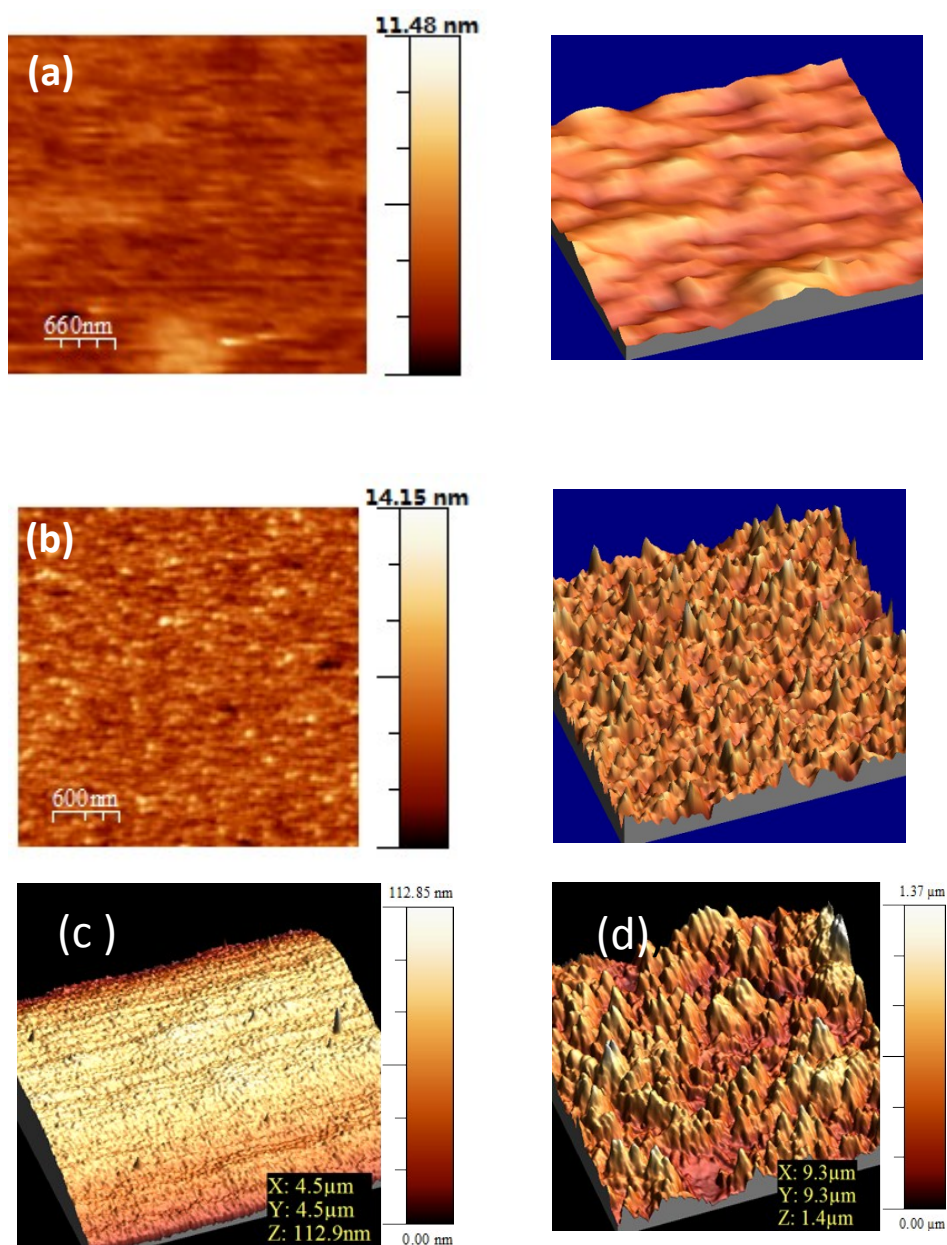


Figure S2. AFM images from (a) plasma cleaned gold covered silicon plate and (b) gold covered silicon plate immersed into 10 mM aqueous cysteamine solution for 24 h. (c) Au-SCNCP (d) Au-SCNCP –polyLCP.