Regular rippled pattern formed by molecular self-organization of polyvinylpyrrolidone encapsulated Ag nanoparticles: A high transmissive coating for efficiency enhancement of c-Si solar cells

Sudarshana Banerjee\textsuperscript{a}, Ajoy K. Saha\textsuperscript{b,c}, Bibhutibhushan Show\textsuperscript{d}, Jhuma Ganguly\textsuperscript{b}, Raghunath Bhattacharyya\textsuperscript{a}, Swapan K Datta\textsuperscript{a}, Hiranmay Saha\textsuperscript{a}, Nilohit Mukherjee\textsuperscript{a}\* 

\textsuperscript{a}Centre of Excellence for Green Energy and Sensor Systems, Indian Institute of Engineering Science and Technology, Shibpur, Howrah 711103, West Bengal, India

\textsuperscript{b}Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah 711103, West Bengal, India

\textsuperscript{c}Department of Materials Science and Engineering, University of Florida, Florida, Gainesville, United States of America

\textsuperscript{d}Department of Chemistry, Jadavpur University, Kolkata 700032, India

\*Corresponding author email: nilsci@yahoo.co.uk

Wavelength vs. transmittance plots for bare glass, blank PVP on glass and PVP films with different Ag loadings deposited on glass.