

## Electronic Supplementary Information

### ESI – III

#### 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<sup>a</sup>, Ajoy K. Saha<sup>b,c</sup>, Bibhutibhushan Show<sup>d</sup>, Jhuma Ganguly<sup>b</sup>, Raghunath Bhattacharyay<sup>a</sup>, Swapan K Datta<sup>a</sup>, Hiranmay Saha<sup>a</sup>, Nillohit Mukherjee<sup>a\*</sup>

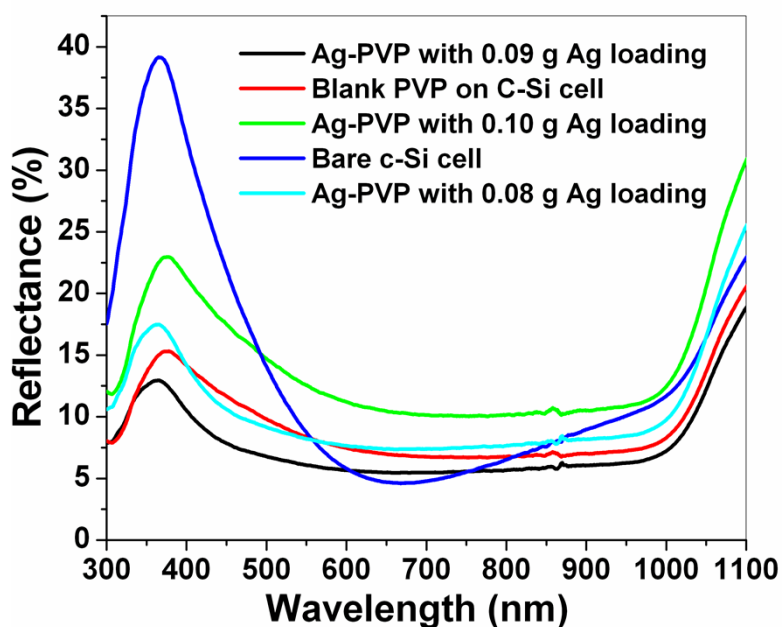
<sup>a</sup>Centre of Excellence for Green Energy and Sensor Systems, Indian Institute of Engineering Science and Technology, Shibpur, Howrah 711103, West Bengal, India

<sup>b</sup>Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah 711103, West Bengal, India

<sup>c</sup>Department of Materials Science and Engineering, University of Florida, Florida, Gainesville, United States of America

<sup>d</sup>Department of Chemistry, Jadavpur University, Kolkata 700032, India

\*Corresponding author email: [nilsci@yahoo.co.uk](mailto:nilsci@yahoo.co.uk)



Wavelength vs. reflectance plots for bare c-Si cell, blank PVP on c-Si cell and PVP films with different Ag loadings coated on c-Si cells.