

Supporting Information

Embedded Metal Electrode for Organic–Inorganic Hybrid Nanowire Solar Cells

*Han-Don Um, Deokjae Choi, Ahreum Choi, Ji Hoon Seo and Kwanyong Seo**

Department of Energy Engineering, Ulsan National Institute of Science and Technology
(UNIST), Ulsan, 44919, Korea

* Corresponding authors. E-mail: kseo@unist.ac.kr

SUPPORTING FIGURES

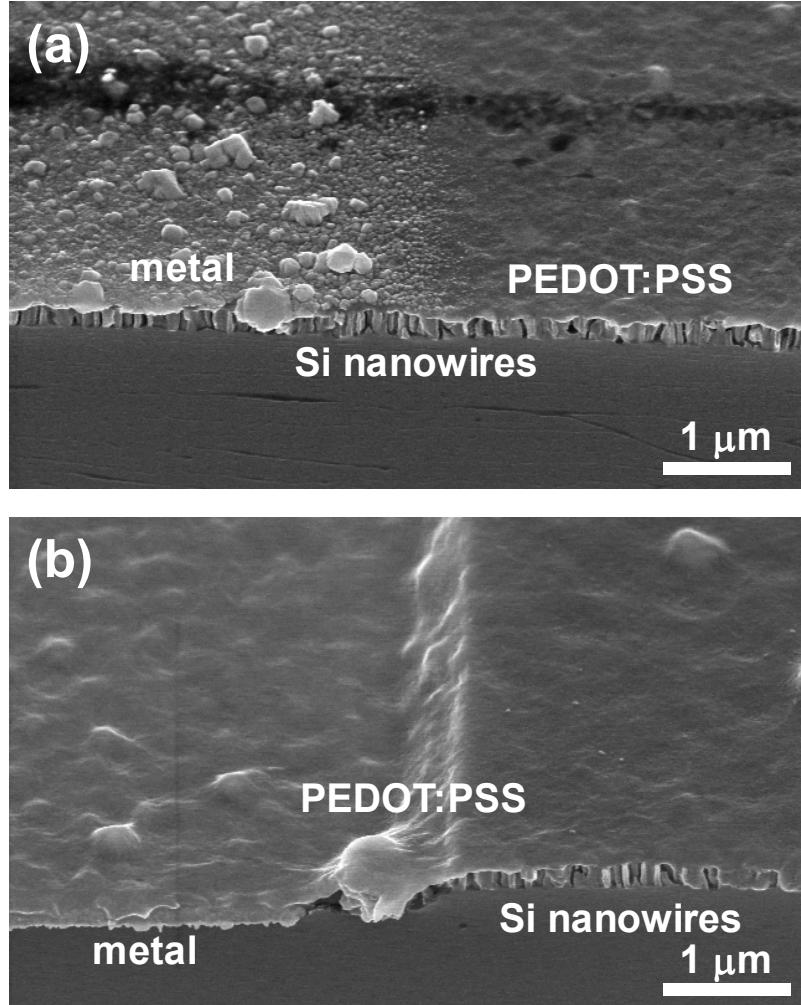


Figure. S1. Cross-sectional SEM images of PEDOT:PSS/Si nanowires hybrid solar cells with (a) conventional and (b) embedded electrodes..

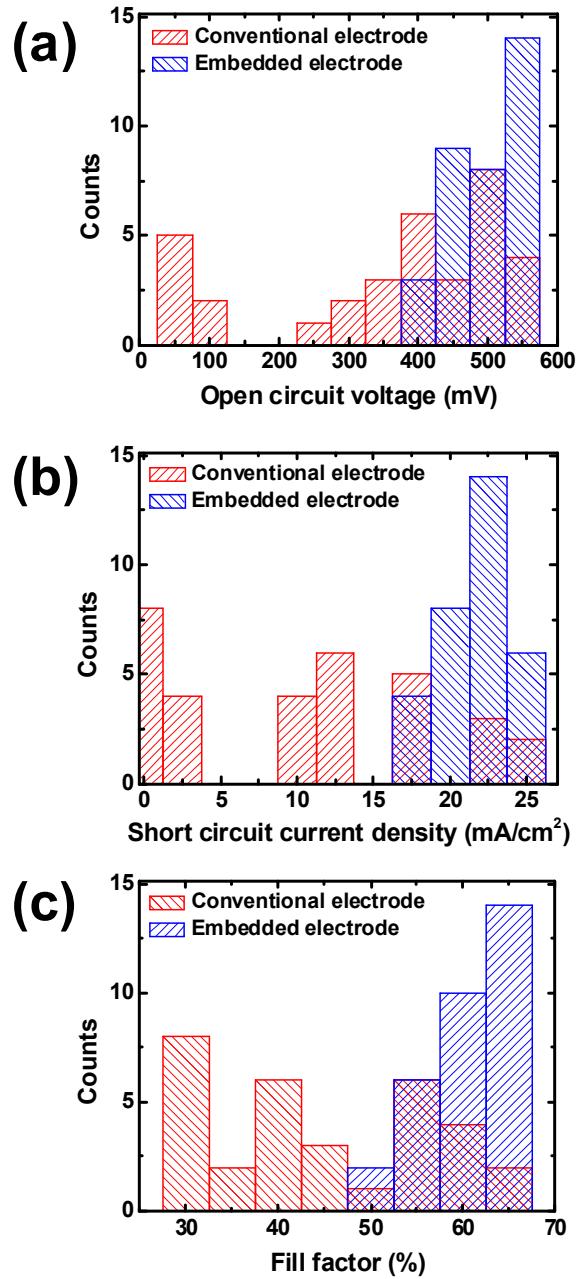


Figure. S2. (a) Open circuit voltage, (b) short circuit current density, and (c) fill factor of PEDOT:PSS/Si nanowires hybrid solar cells with conventional (red) and embedded metal electrodes (blue).

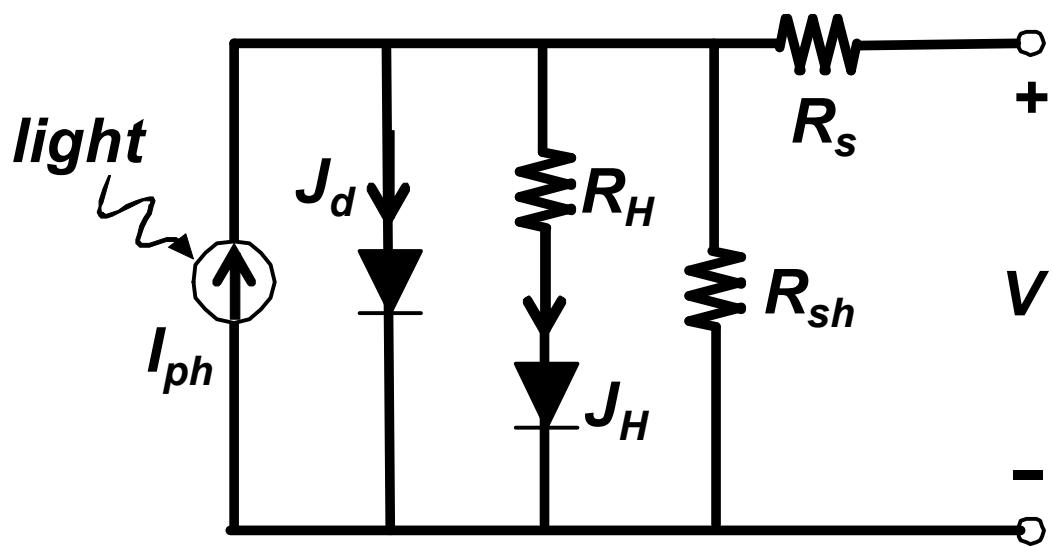


Figure. S3. Equivalent circuit of PEDOT:PSS/Si nanowires hybrid solar cells with the conventional electrode.

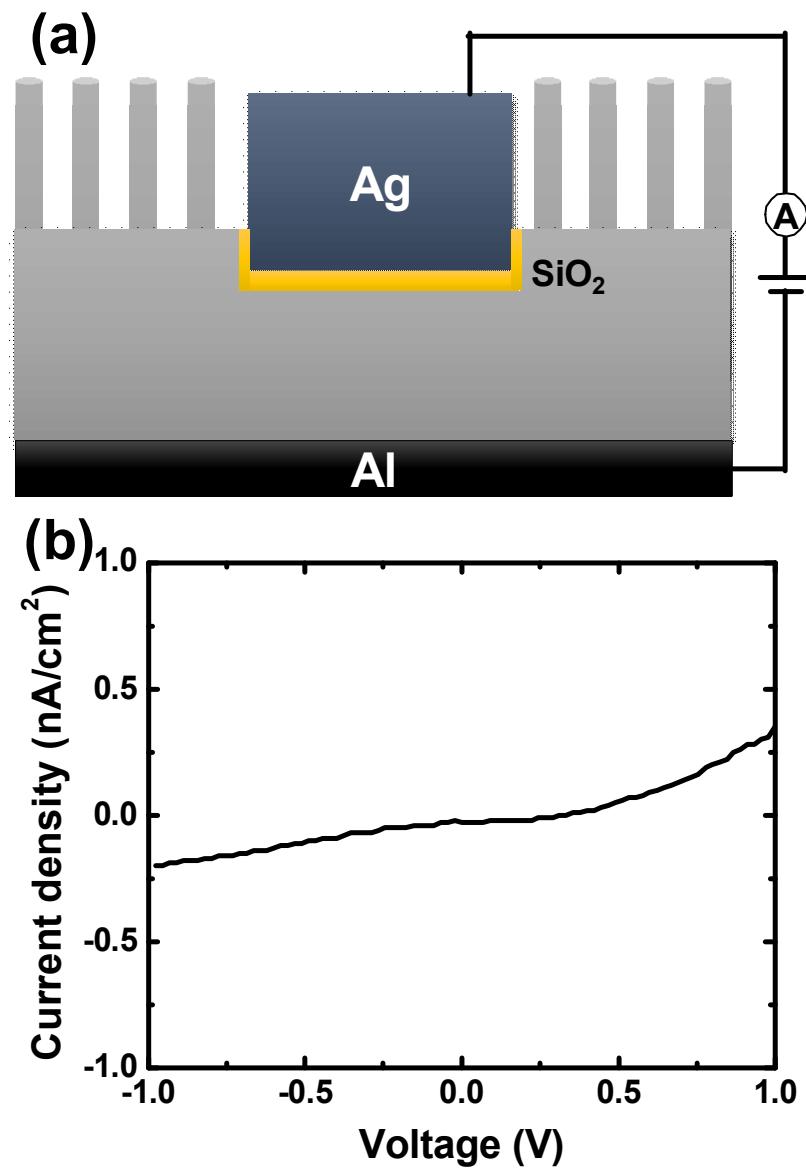


Figure. S4. (a) Schematic of (b) current density-voltage curve of the leakage current measurement for the embedded electrode.

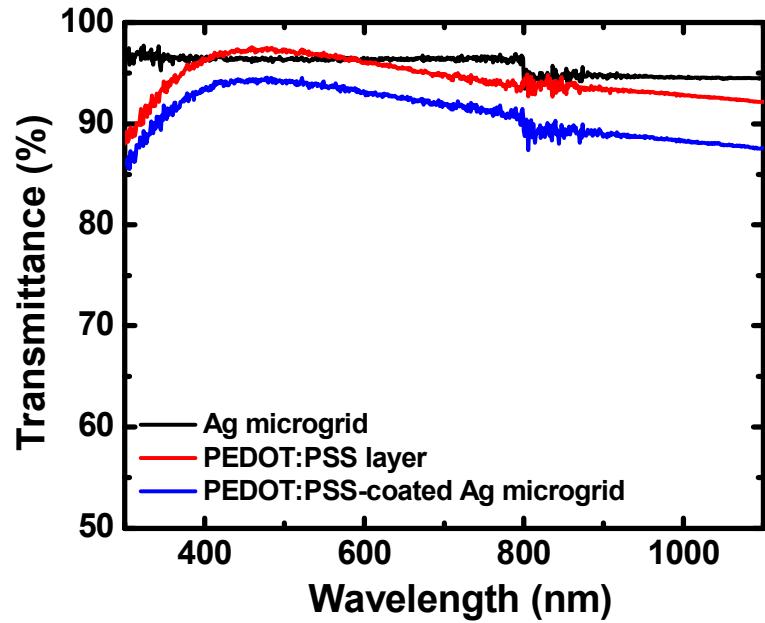


Figure. S5. Transmittance spectra of Ag microgrid (black), PEDOT:PSS layer (red), and PEDOT:PSS-coated Ag microgrid (blue).