

Electronic Supplementary Information

Plasmonic Light Harvesting of Dye Sensitized Solar Cells by Au-Nanoparticles Loaded TiO₂ Nanofibers

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ESI-I

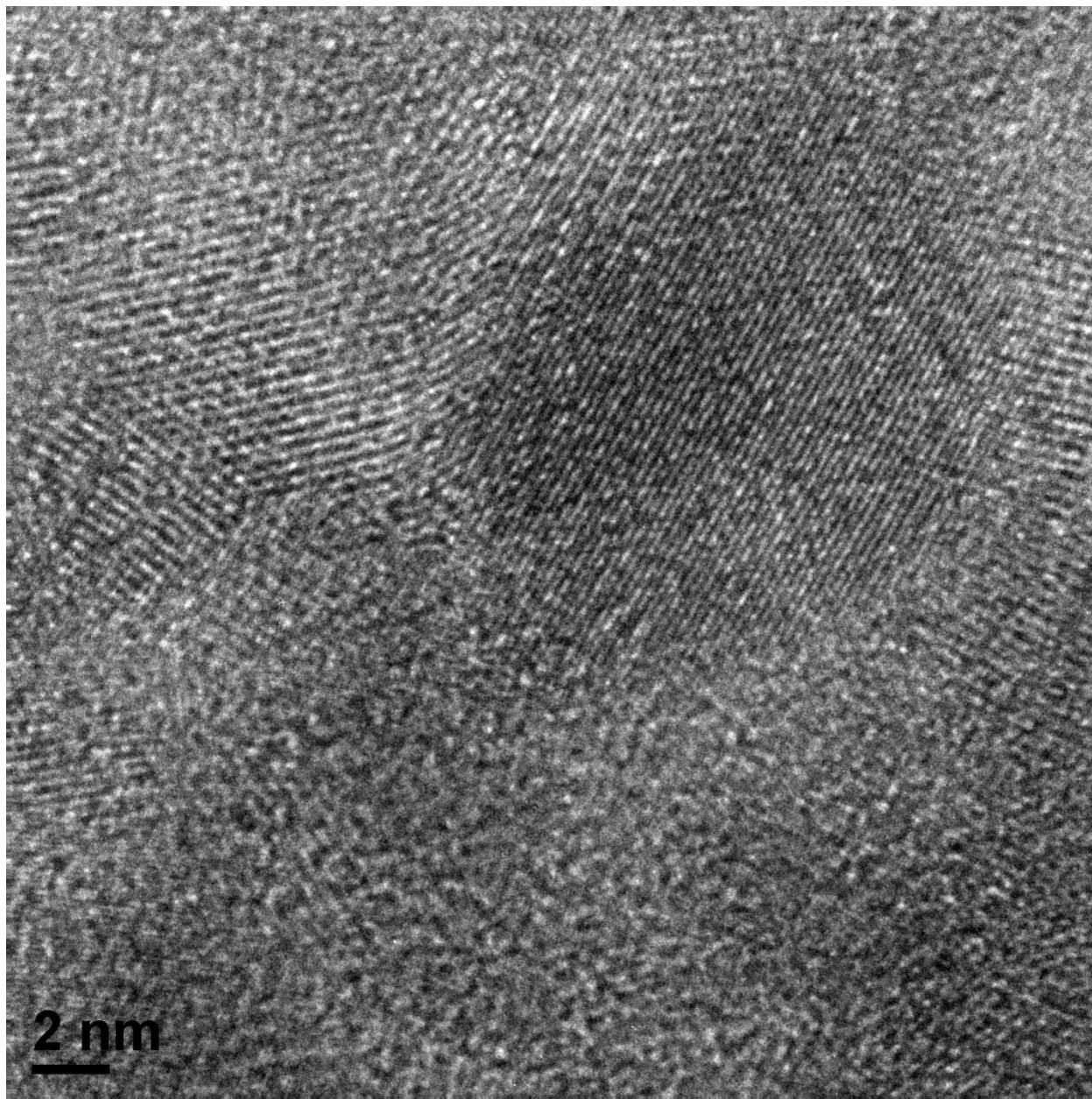


Figure S1: HR-TEM image of TiO₂: Au nanofibers.

ESI-II

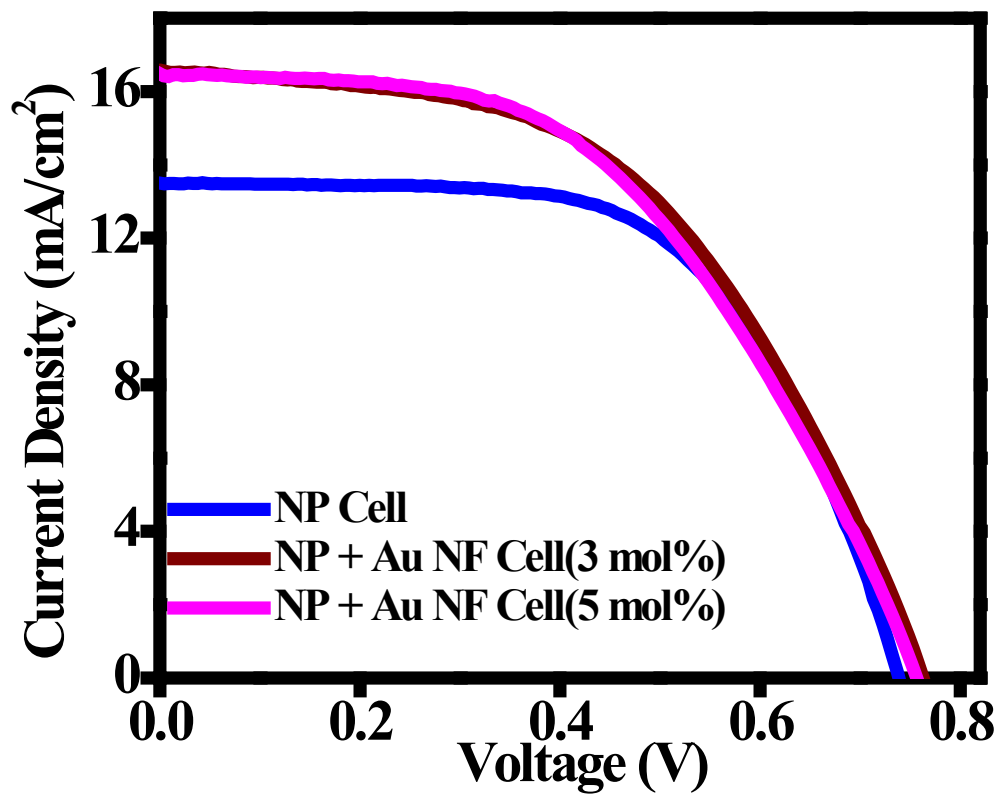


Figure S2: J-V characteristics for TiO₂: Au nanofibers with 3 mol% and 5 mol% Au: Ti ratio.

Name	V _{oc} (V)	J _{sc} (mA/cm ²)	FF %	η (%)
NP Cell	0.74	13.47	60.6	6.03
NP + Au NF Cell (3 mol%)	0.76	16.51	51.4	6.42
NP + Au NF Cell (5 mol%)	0.75	16.45	50.5	6.29

Table S1: Photocurrent Density (J) – Voltage (V) Characteristics for NP Cell and NP + Au NF Cell with 3 mol% and 5 mol% as Au: Ti ratio.

ESI-III

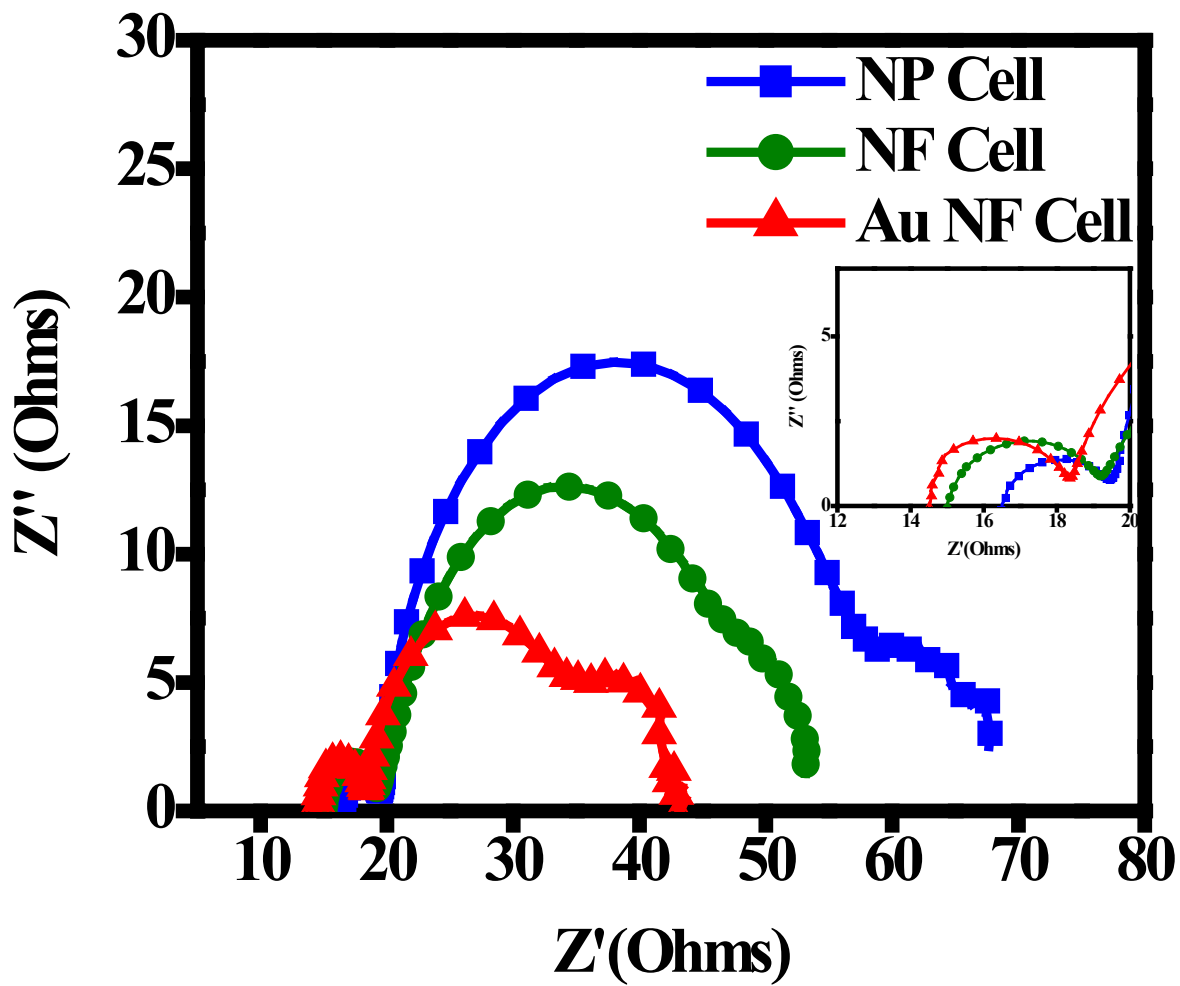


Figure S3 : Nyquist plots for NP Cell (blue), NF cell (olive) and Au NF cell(red) at V_{oc}