

Supporting Information

Plasmon Enhanced Photocurrent in Strong Coupling Ag@Perylene

Core-Shell Nanowires

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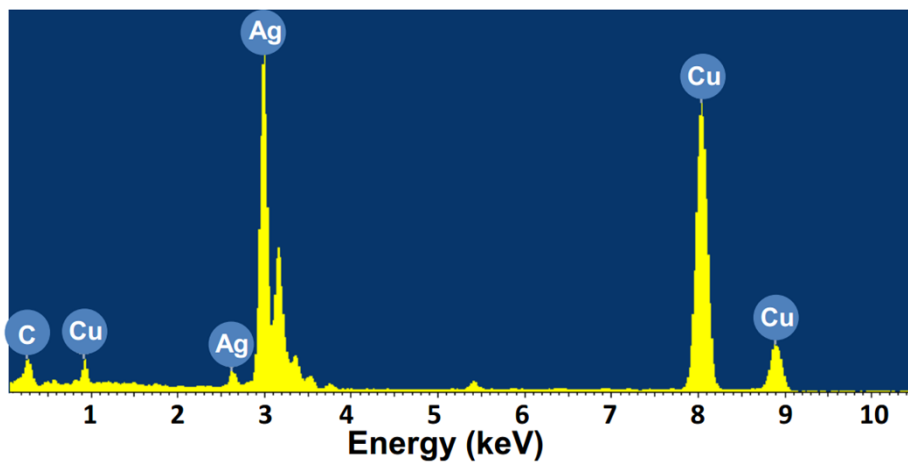


Figure S1. EDS spectrum for Ag@Pe-5.8 nm sample.

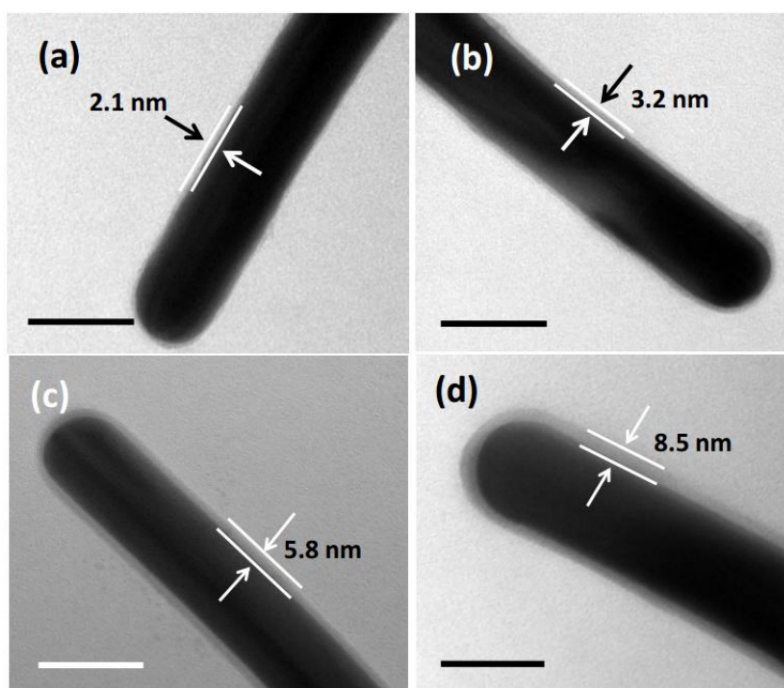


Figure S2. Typical TEM images of Ag@Pe nanostructures prepared with different amounts of injected Pe^{+} . (a) 0.05 mL (b) 0.1 mL (c) 0.15 mL (d) 0.20 mL M Pe^{+} acetonitrile solution.

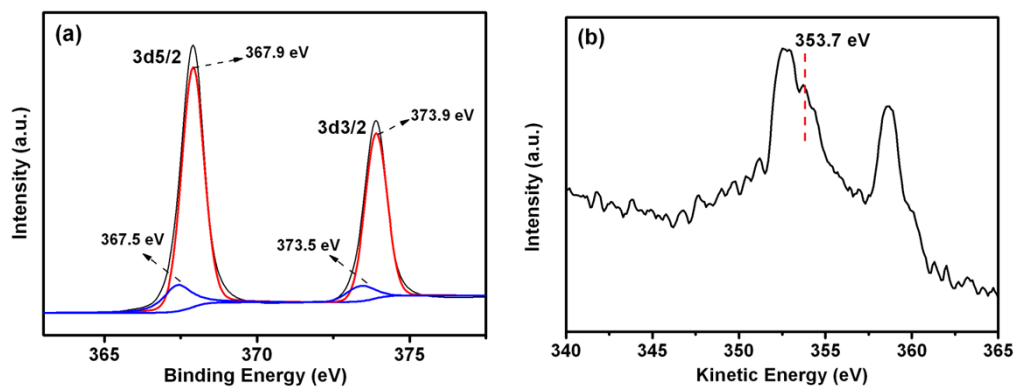


Figure S3. Ag 3d (a) and Ag MNN (b) spectra of Ag@Pe-5.8 nm sample.

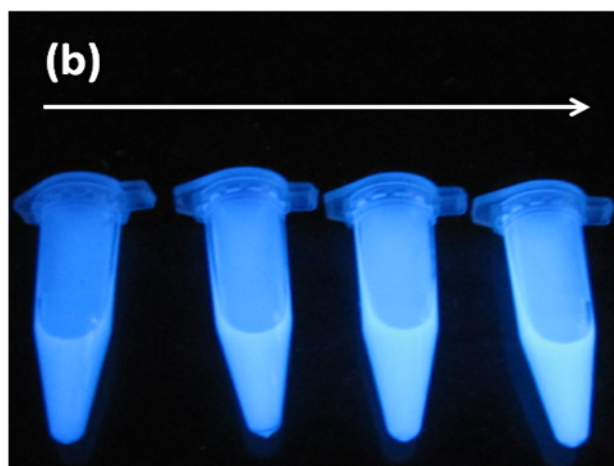
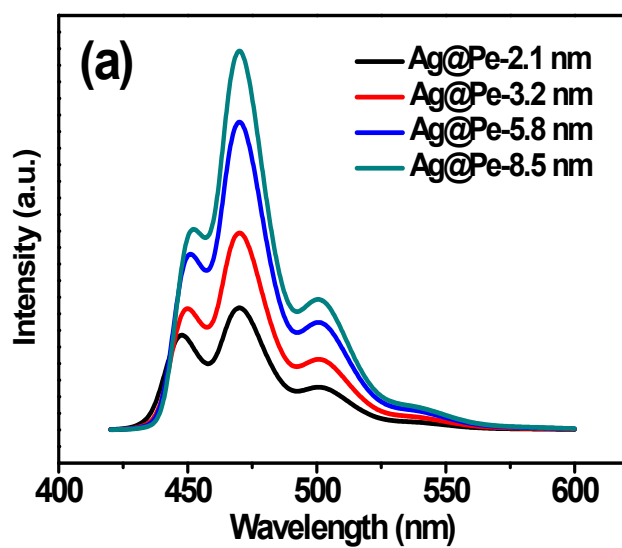


Figure S4. Fluorescence spectra (a) and photographs under UV light irradiation of Ag@Pe samples with different shell thickness.

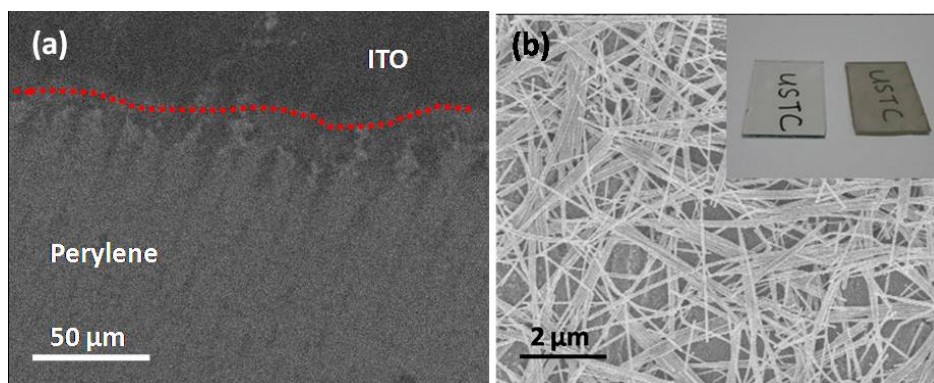


Figure S5. (a) SEM image of perylene film. (b) Ag@Pe-5.8 nm on ITO substrate for photocurrent measurement. Inset: photographs of ITO substrates before (left) and after (right) drop-casting of Ag@Pe-5.8 nm.

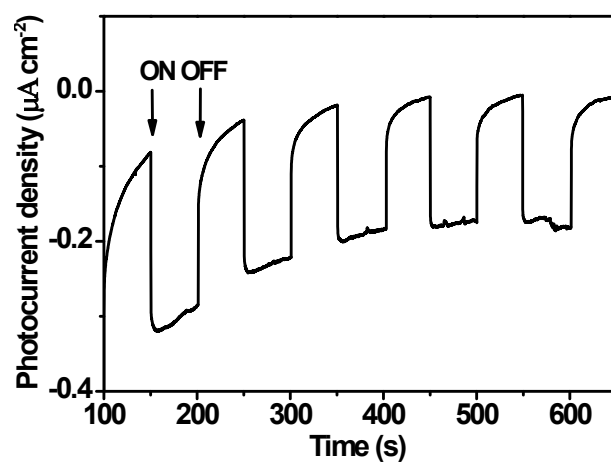


Figure S6. Photocurrent of pure Ag NWs on ITO substrate.

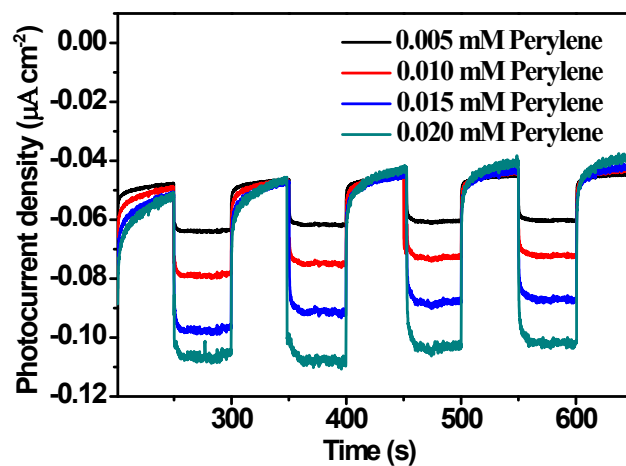


Figure S7. Photocurrent of perylene with different amount.