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Broadband Photoresponse Promoted by Interfacial Electron Transfer in Diketopyrroleopyrrole-Based Compound/ZnO Hybrid Nanocomposite

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Supporting Information

Supporting Figures

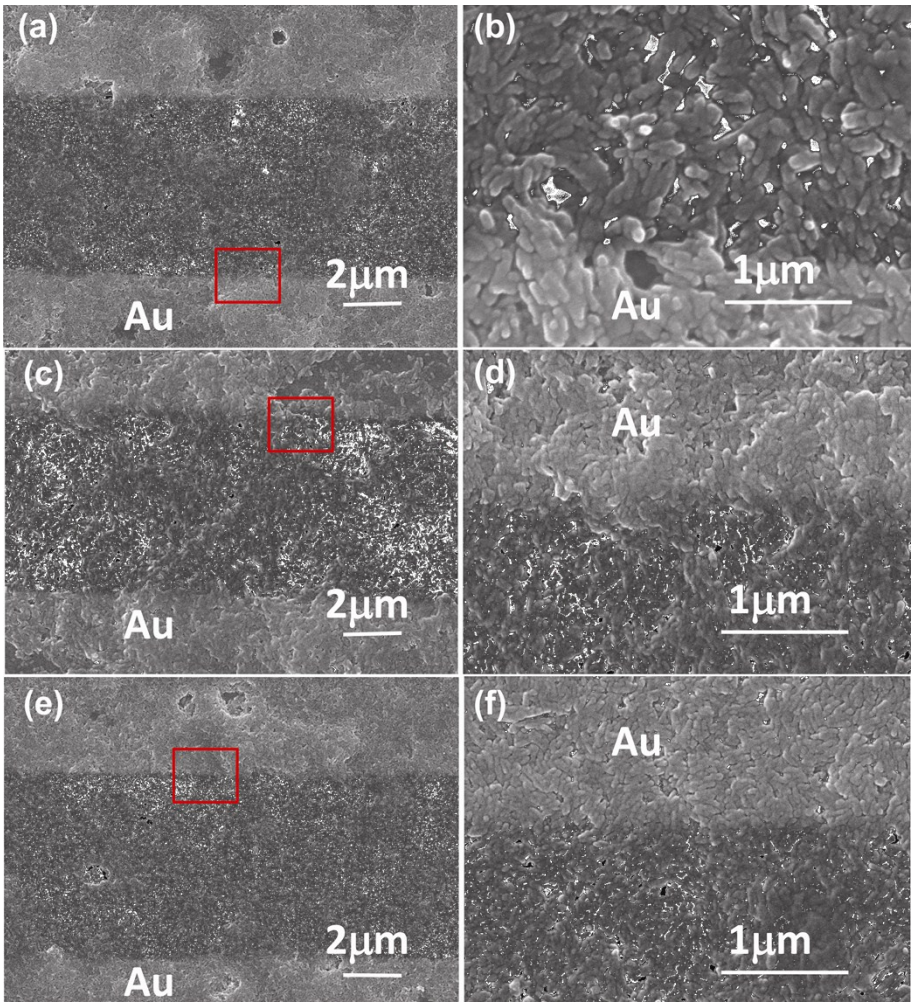

Figure S1. SEM images of the devices gaps for (a) ZnO nanorods and (b) the magnification of the bridging area between ZnO nanorods and Au electrode marked in red box in Figure (a), (c) TDPP/ZnO hybrid composite devices and (d) the magnification of the bridging area between ZnO nanorods and Au electrode marked in red box in Figure (c). (e) TTDPP/ZnO hybrid composite devices and (f) the magnification of the bridging area between ZnO nanorods and Au electrode marked in red box in Figure (e).

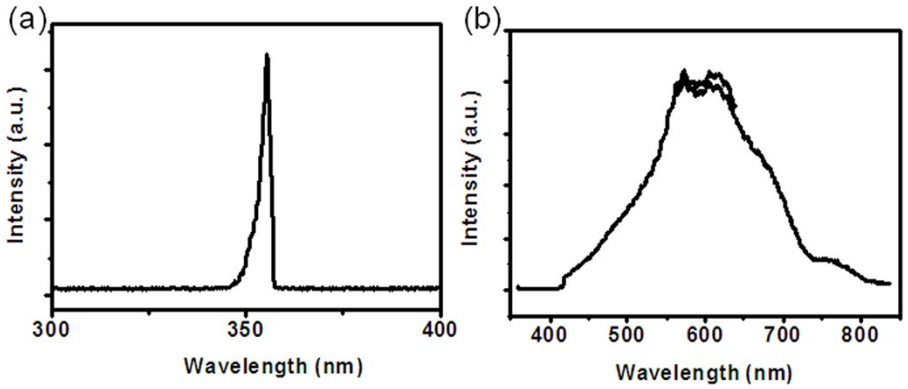

Figure S2. The spectra of (a) UV light filtered from xenon lamp (λ = 355~365 nm) and (b) iodine-tungsten lamp (λ = 450~750 nm).

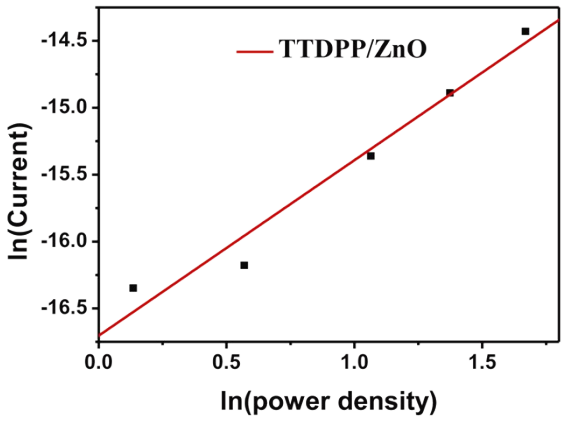

Figure S3. Corresponding fitting of photocurrent versus incident light density using equation: $ln(L) \propto C_2 \times ln(P)$. ($C_2$ represents the photo-capture coefficient)