

Supporting Information

Optimizing Nanosheet-based ZnO Hierarchical Structure through Ultrasonic-assisted Precipitation for Remarkable Photovoltaic Enhancement in Quasi-solid Dye-sensitized Solar Cells

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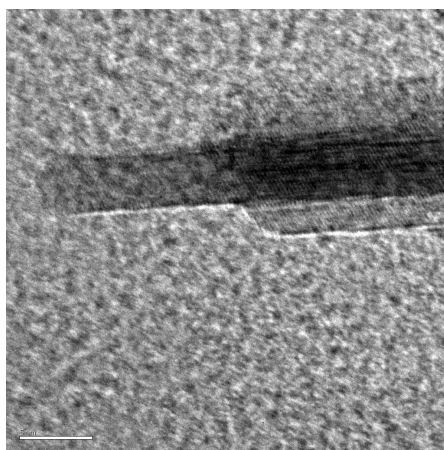


Fig. S1. TEM image (the scale bar is 5 nm) of the nanosheet from ZnO HFs of sample 1.

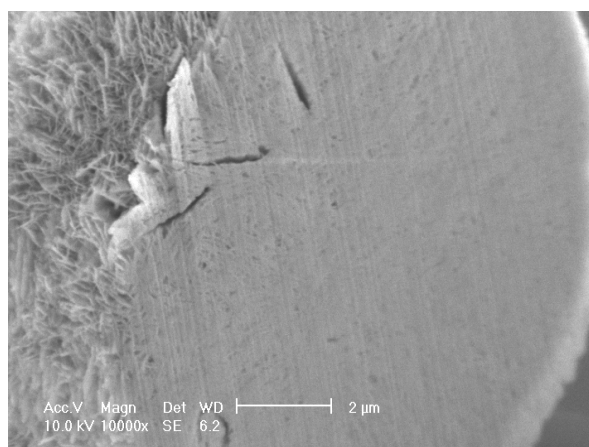


Fig. S2. Cross-sectional images of the ZnO HF in sample 2 prepared without ultrasonic irradiation, the scale bar is 5 μm .

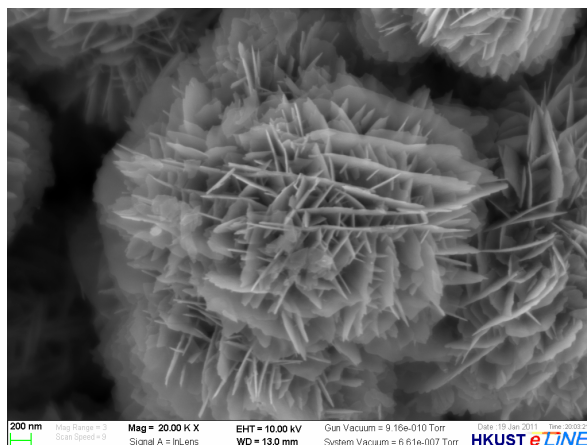


Fig. S3. SEM images of our reported ZnO HF prepared through direct precipitation (*Phys. Chem. Chem. Phys.*, 2011, 13, 10631). Note: (i) We put this image here in order to facilitate the comparison with our present HF (sample 1 in text) prepared through ultrasonic-assisted precipitation; (ii) The reactants concentration for fabrication of this HF was twice as high as that for sample 1 and sample 2 in text.

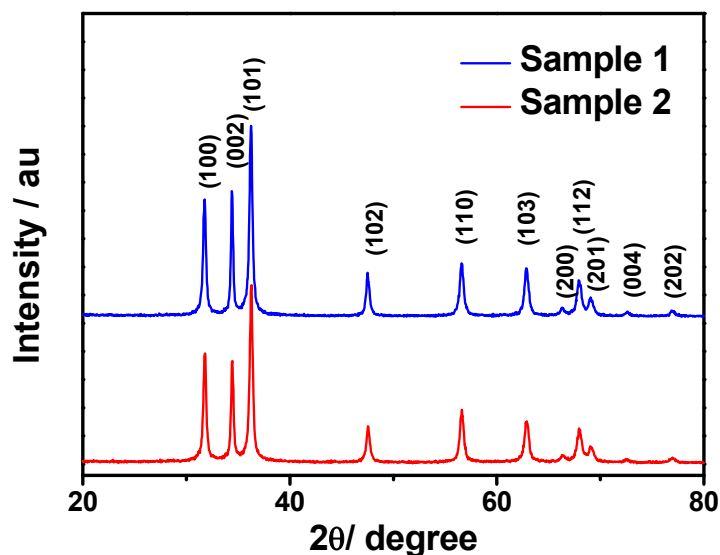


Fig. S4. X-ray diffraction (XRD) patterns of sample 1 and sample 2.

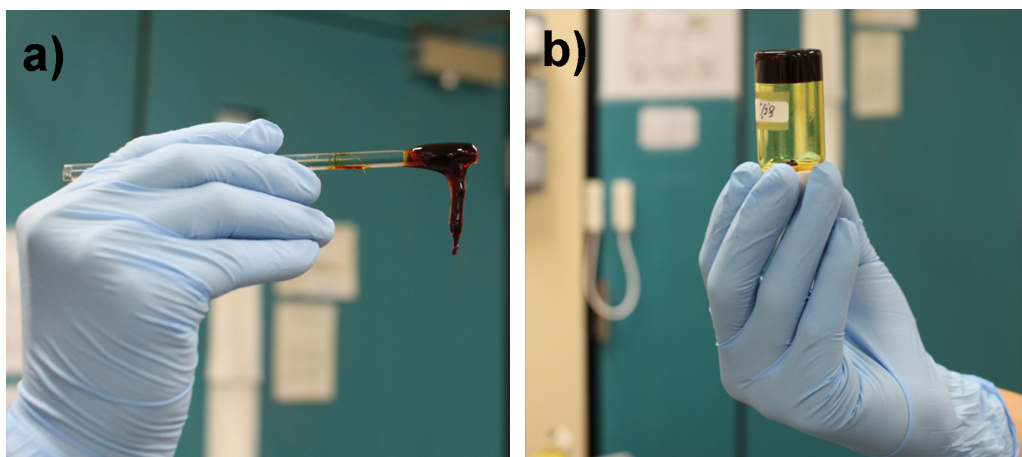


Fig. S5. Digital photographs of the PEO-based polymer gel electrolyte in this paper.

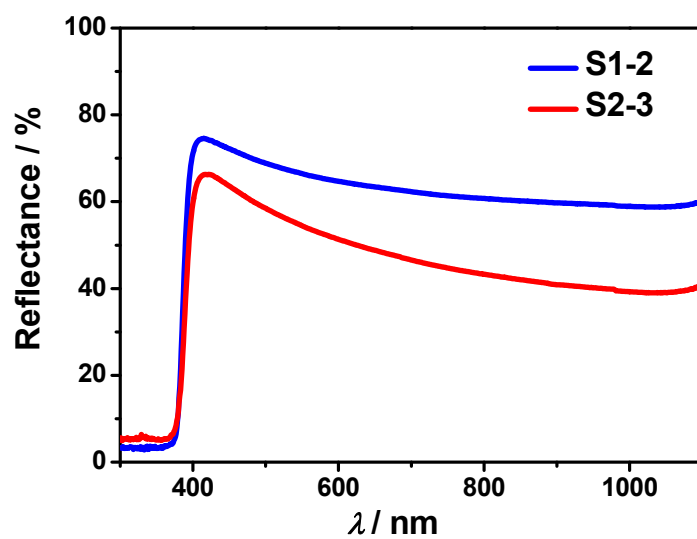


Fig. S6. Diffuse-reflectance spectra of the S1-2 photoanode ($\sim 28.8 \mu\text{m}$ thick) and S2-3 photoanode ($\sim 29.2 \mu\text{m}$ thick).