Supporting Information

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

Yan-Tao Shi, Chao Zhu, Lin Wang, Wei Li, Chun Cheng, Kin-Ming Ho, Kwok-Kwong Fung, and Ning Wang*

Fig. S1. TEM image (the scale bar is 5 nm) of the nanosheet from ZnO HF 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 (~28.8 μm thick) and S2-3 photoanode (~29.2 μm thick).