Supporting Information

Single-step fabrication of 3D hierarchical ZnO/ZnS heterojunction branched nanowires by MOCVD for enhanced photoelectrochemical water splitting

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Figure. S1. High magnification TEM of ZnO branched NWs with the corresponding energy dispersive X-ray spectroscopy (EDS) mapping. The scale represents 1 µm.
Figure. S2. Line scan profile of ZnO branched NWs along STEM image with the corresponding EDS analysis and elemental distribution.
Figure. S3. The dark currents of all photoanodes.
Figure. S4. SEM images with different magnifications for s-h-b-ZnO NWs photoanode after photoelectrochemical water splitting reaction.
**Figure S5.** XRD pattern of s-h-b-ZnO NWs photoanode after photoelectrochemical water splitting reaction.