Supporting Information

3D highly efficient photonic micro concave-pit arrays for enhanced

solar water splitting

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Fig. S1. Cross-sectional SEM image of ITO film grown on a planar glass.



Fig. S2. (a) Low and (b) high-magnification SEM image of ITO film grown on a 3D

MCPAs-based glass.



Fig. S3. Cross-sectional SEM image of In_2S_3 nanosheet arrays grown on a planar ITO

glass.



Fig. S4. XRD patterns of single In₂S₃ and In₂S₃/ZnO heterojunction nanosheet arrays

grown on 3D MCPAs-based electrodes.



Fig. S5. The full XPS spectrum of In_2S_3/ZnO heterojunction nanosheet arrays.



Fig. S6. Transmittance (a) and reflectance (b) spectra of the In_2S_3 nanosheet arrays on

planar and 3D MCPAs-based electrodes.



Fig. S7. Transmittance (a) and reflectance (b) spectra of the In_2S_3/ZnO heterojunction nanosheet arrays on planar and 3D MCPAs-based electrodes.