Supporting Information

Phosphating core-shell graphdiyne/CuI/Cu₃P S-scheme heterojunction confirmed with in situ XPS characterization for efficient photocatalytic hydrogen production

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Fig. S1 (a) SEM mapping smages of Cu₃P.

Fig. S1 (b) SEM mapping smages of GDY.
Fig. S1 (c) SEM mapping smages of GC.

Fig. S1 (d) SEM mapping smages of Cul/Cu$_3$P.

Fig. S2 XPS full spectrum of GDY, Cul, Cu$_3$P, GCC-3.
Fig. S3 band gap structures of GDY, Cu3P and CuI.

Fig. S4 XPS spectra of (a) C 1s; (b) Cu 2p; (c) I 3d.