A Tandem Photoelectrochemical Water Splitting Cell Consisting of CuBi$_2$O$_4$ and BiVO$_4$ Synthesized from a Single Bi$_4$O$_5$I$_2$ Nanosheet Template

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**Figure S3.** The $J$-$E$ curves of the CuBi$_2$O$_4$ converted from nanoBi$_4$O$_3$I$_2$ with $D = 50 \, \mu$L cm$^{-2}$ and various $T$, recording in a 0.1 M Bi$_2$ buffer solution containing 0.5 M Na$_2$SO$_4$ (pH 9.2) under chopped solar-light illumination (100 mW cm$^{-2}$, AM 1.5G) under N$_2$ atmosphere.

![Graph showing $J$-$E$ curves](image1)

**Figure S4.** GI-XRD patterns of the CuBi$_2$O$_4$ converted from nanoBi$_4$O$_3$I$_2$ with various $D$ at $T = 550^\circ$C. The second phase of Bi$_2$O$_{2.33}$ and CuO exist if $D$ is below and above 40 $\mu$L cm$^{-2}$, respectively.

![GI-XRD patterns](image2)
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