

## Supporting Information

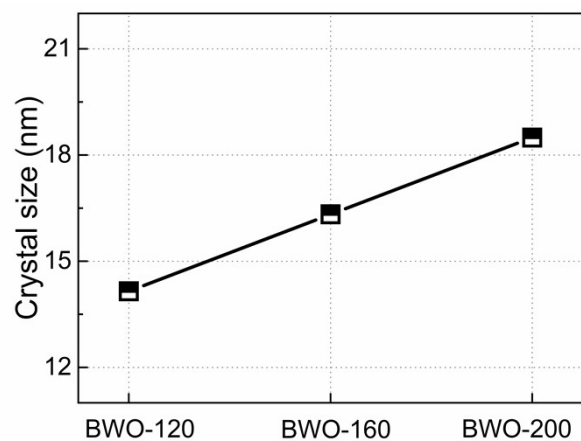
Aurivillius-layered  $\text{Bi}_2\text{WO}_6$  nanoplates with  $\text{CoO}_x$  cocatalyst as high-performance piezocatalyst for hydrogen evolution

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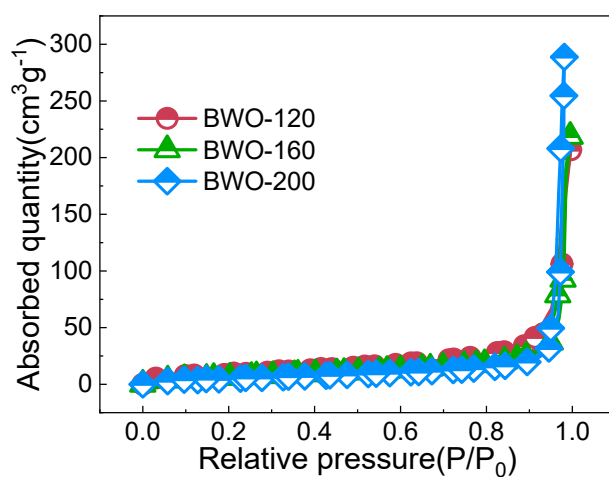
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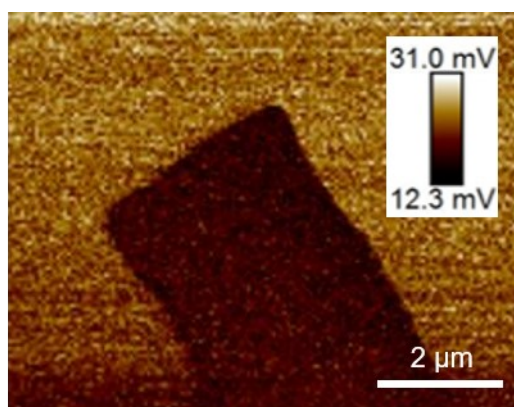
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**Fig. S1** Calculated crystal size of BWO samples

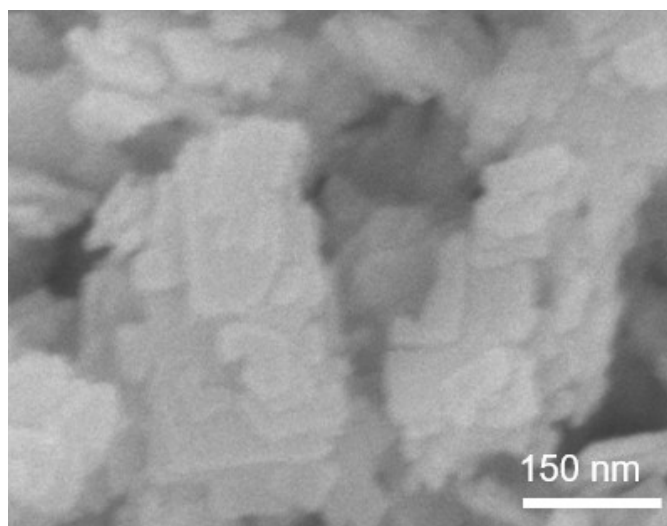


**Fig. S2** N<sub>2</sub> sorption isotherm curves of BWO catalysts.

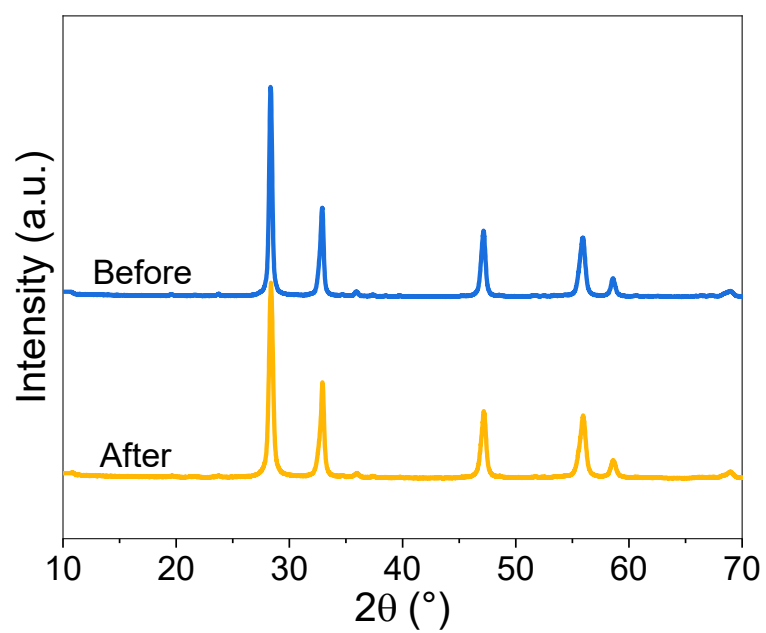


Hs PR Amplitude

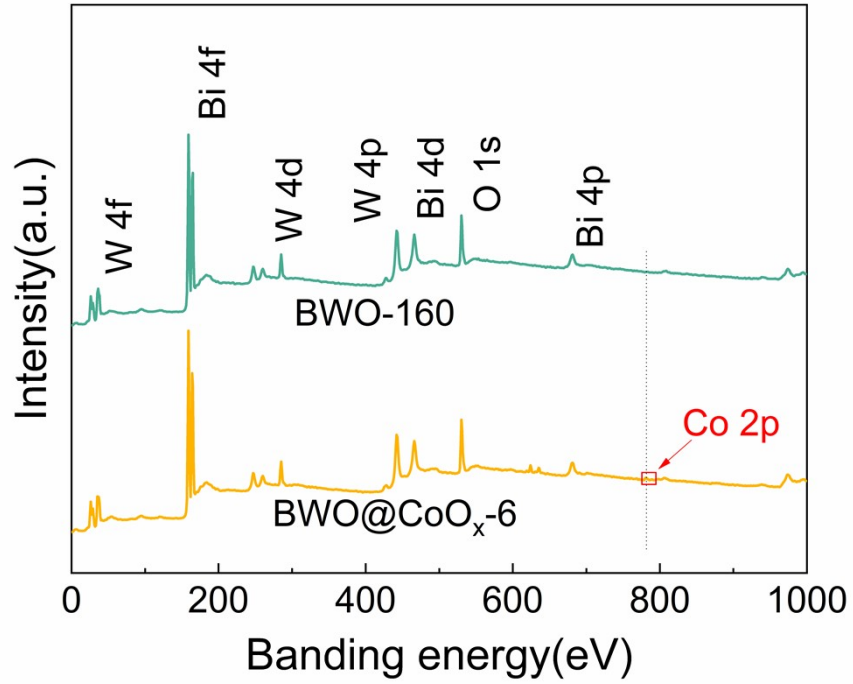
**Fig. S3** Amplitude images of BWO catalysts.



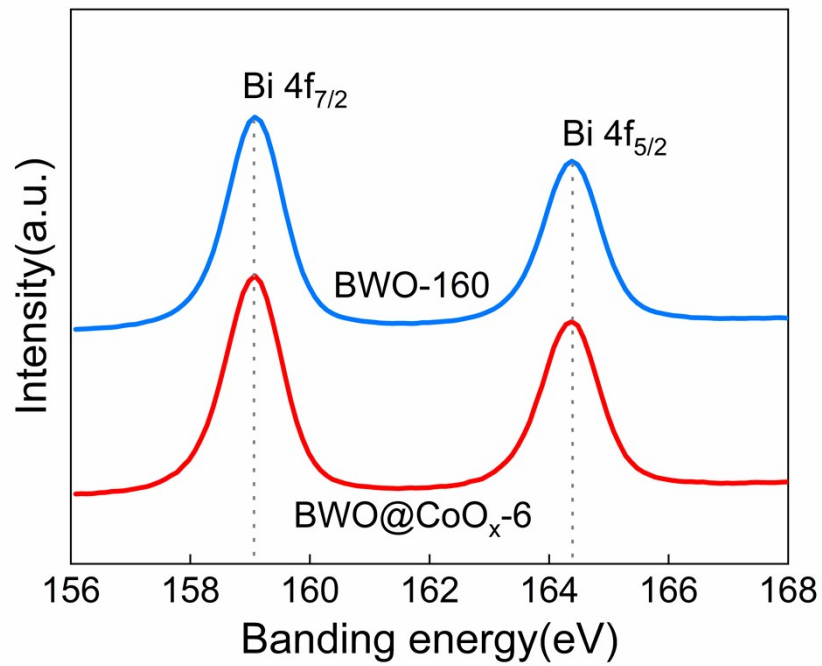
**Fig. S4** SEM image of BWO-160 after 4 piezocatalytic HER cycles



**Fig. S5** XRD patterns of BWO-160 before and after piezocatalysis.



**Fig. S6** XPS survey spectra of BWO-160 and BWO@CoO<sub>x</sub>-6.



**Fig. S7** High-resolution XPS scan spectra of Bi 4f in BWO-160 and BWO@CoO<sub>x</sub>-6.

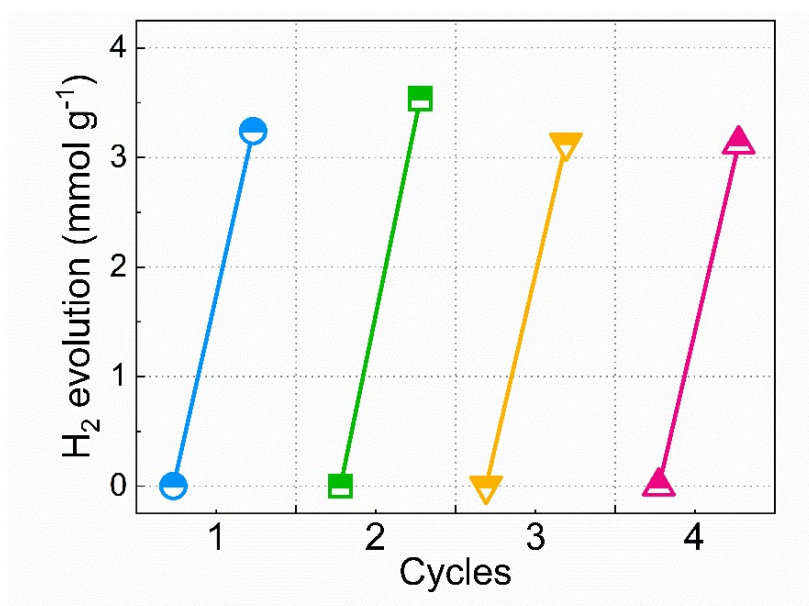


Fig. S8 Piezocatalytic HER cycling of BWO@CoO<sub>x</sub>-6.