

## Supporting Information

# High-throughput Production of ZnO-MoS<sub>2</sub>-Graphene Heterostructures for Highly Efficient Photocatalytic Hydrogen Evolution

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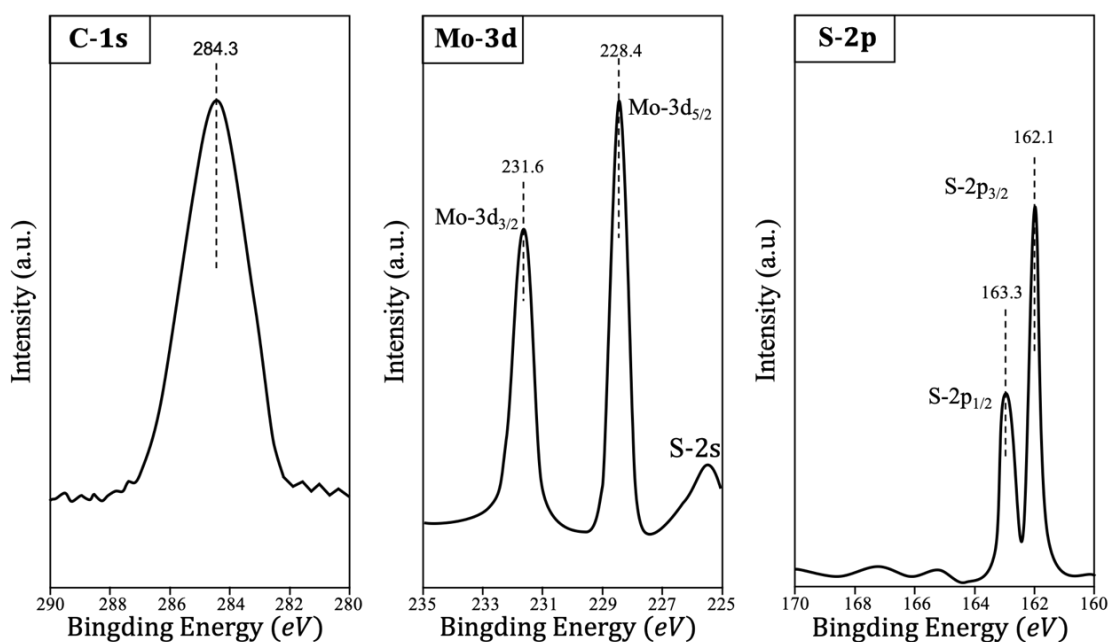
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We provided a survey XPS in the main text to confirm the existence of each element component. In addition, the HR-XPS results are shown as follows:



**Figure S1.** HR XPS of C-1s, Mo-3d and S-2p after reducing noisy.