

# Supporting Information

## **N-doped carbon anchored CoS<sub>2</sub>/MoS<sub>2</sub> nanosheets as efficient electrocatalysts for overall water splitting**

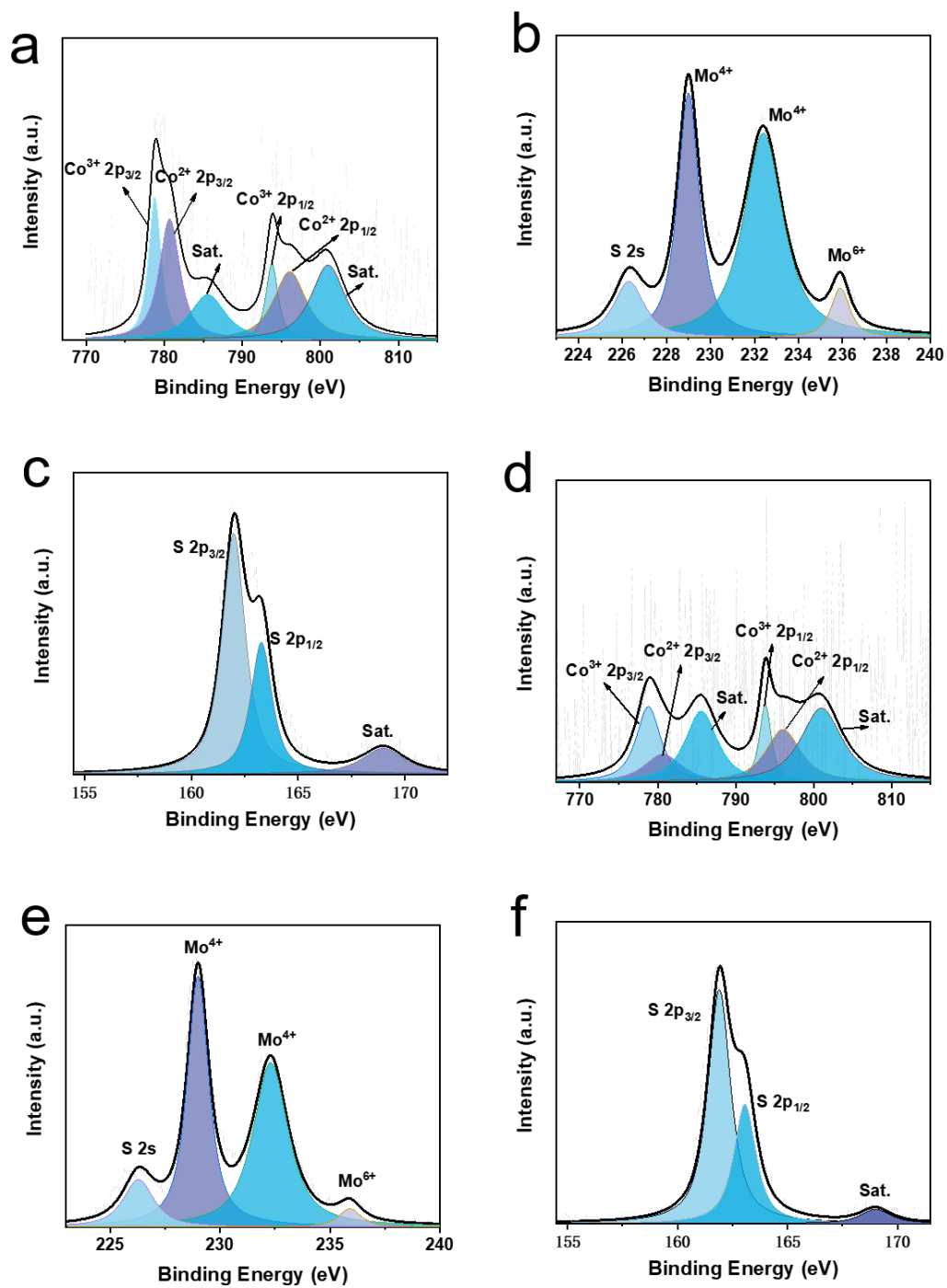
Xingwei Zhou<sup>a</sup>, Wei Zhang<sup>a,b,\*</sup>, Zunhao Zhang<sup>a</sup>, Zizhun Wang<sup>a</sup>, Xu Zou<sup>a,\*</sup>, Dabing Li<sup>c</sup>, Weitao Zheng<sup>a</sup>

<sup>a</sup> Key Laboratory of Automobile Materials MOE, School of Materials Science & Engineering, Jilin Provincial International Cooperation Key Laboratory of High-Efficiency Clean Energy Materials, Electron Microscopy Center, and International Center of Future Science, Jilin University, Changchun 130012, China

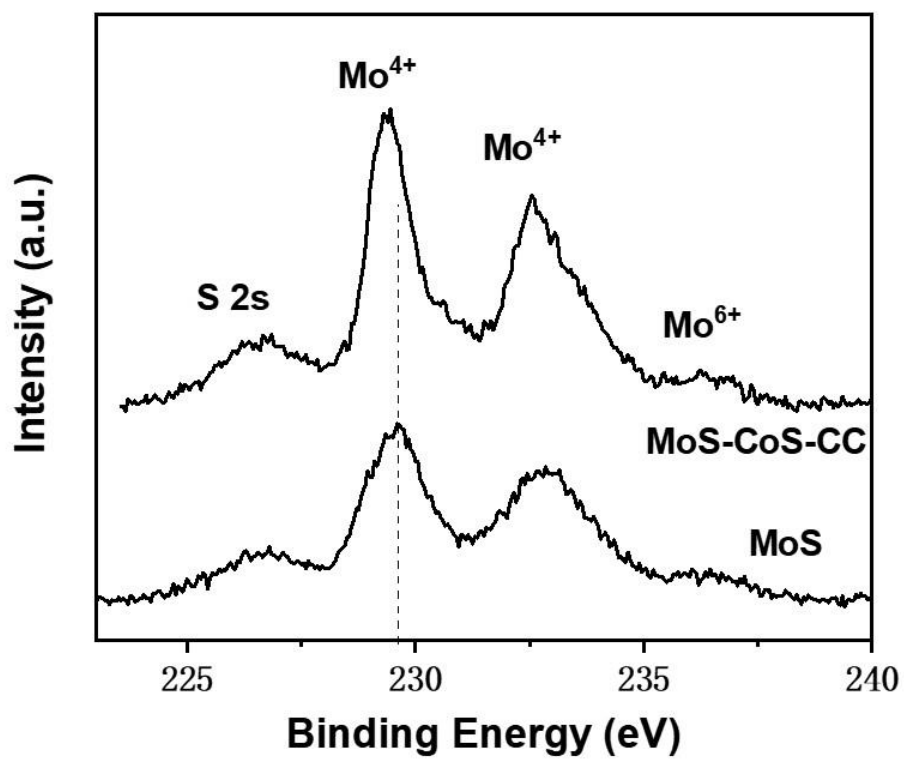
<sup>b</sup> Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology, Wuhan 430074, China

<sup>c</sup> State Key Laboratory of Luminescence and Applications, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences, Changchun 130033, China

\* Email: [weizhang@jlu.edu.cn](mailto:weizhang@jlu.edu.cn) ; [zoux@jlu.edu.cn](mailto:zoux@jlu.edu.cn)



**Figure S1** XPS spectrum of (a), (b) and (c) MoS/CoS/CC-4H, (d), (e) and (f) MoS/COS/CC-8H.



**Figure S2** Mo 3d XPS spectrum of MoS/CoS/CC-6H and MoS<sub>2</sub> electrocatalysts.