

## Electronic Supplementary Information

### Improvement of HER activity for MoS<sub>2</sub>: insight into the effect and mechanism of phosphorus post-doping

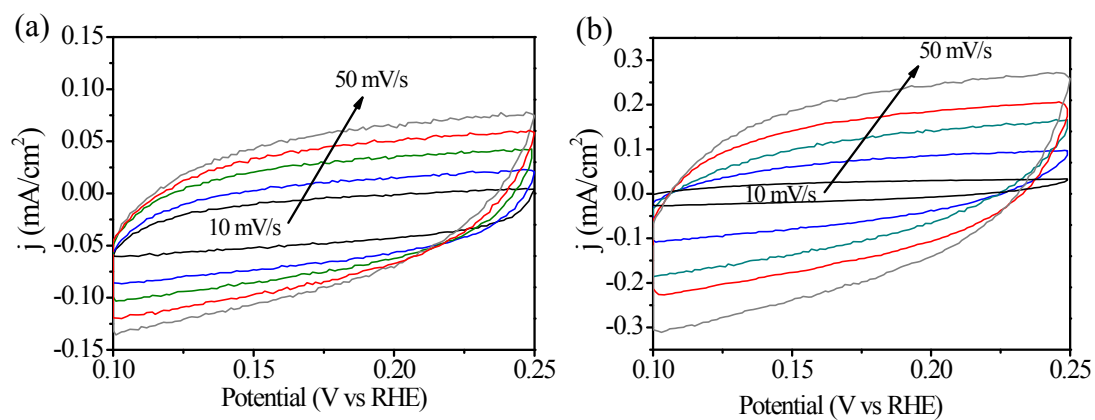
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**Fig. S1** (a), (b) CV curves of MoS<sub>2</sub> and P-MoS<sub>2</sub>-2 nanosheets in the region of 0.10-0.25 V vs. RHE.