Supplementary Information for

Enhanced Electrocatalytic Activity of MoP Microparticles for Hydrogen Evolution by Grinding and Electrochemical Activation

Tanyuan Wang, Kuangzhou Du, Wanglian Liu, Zhiwei Zhu, Yuanhua Shao, Meixian Li*



Fig. S1 XPS survey spectrum for long-term stored MoP.



Fig. S2 XPS spectra of Mo 3d region for long-term stored MoP.



Fig. S3 XPS spectra of P 2p region for long-term stored MoP.



Fig. S4 XRD patterns of long-term stored MoP.



Fig. S5 Polarization curves of long-term stored MoP in 0.5 M H_2SO_4 at a scan rate of 2 mV s⁻¹.



Fig. S6 Polarization curves of milled MoP before and after cyclic voltammetric treatment in 0.5 M H_2SO_4 at a scan rate of 2 mV s⁻¹, the applied cycle was -0.15 V to +0.15 V vs. RHE at a scan rate of 100 mV s⁻¹.



Fig. S7 Polarization curves of milled MoP that electrochemically activated at various potentials in 0.5 $M H_2SO_4$ at a scan rate of 2 mV s⁻¹.



Fig. S8 Cyclic voltammograms of the milled MoP particles in 0.5 M H_2SO_4 at a scan rate of 50 mV s⁻¹.



Fig. S9 SEM image of MoP microparticles after electrochemical activation.



Fig. S10 SEM image of MoP microparticles before electrochemical activation.



Fig. S11 X-ray absorption structure specra of MoP microparticles before and after electrochemical activation