

Supporting Information

Path-Dependent Hydrogen Evolution Reaction via Selective Etching of Bilayer Catalysts

Min Jung^{a†}, Jungmoon Lim^{a†}, Junsung Byeon^a, Taehun Kim^a, Younghoon Lim^a, Hongju Park^a,
Jasik Eom^a, Seungsub Lee^a, Sangyeon Pak^{b*}, and SeungNam Cha^{a*}

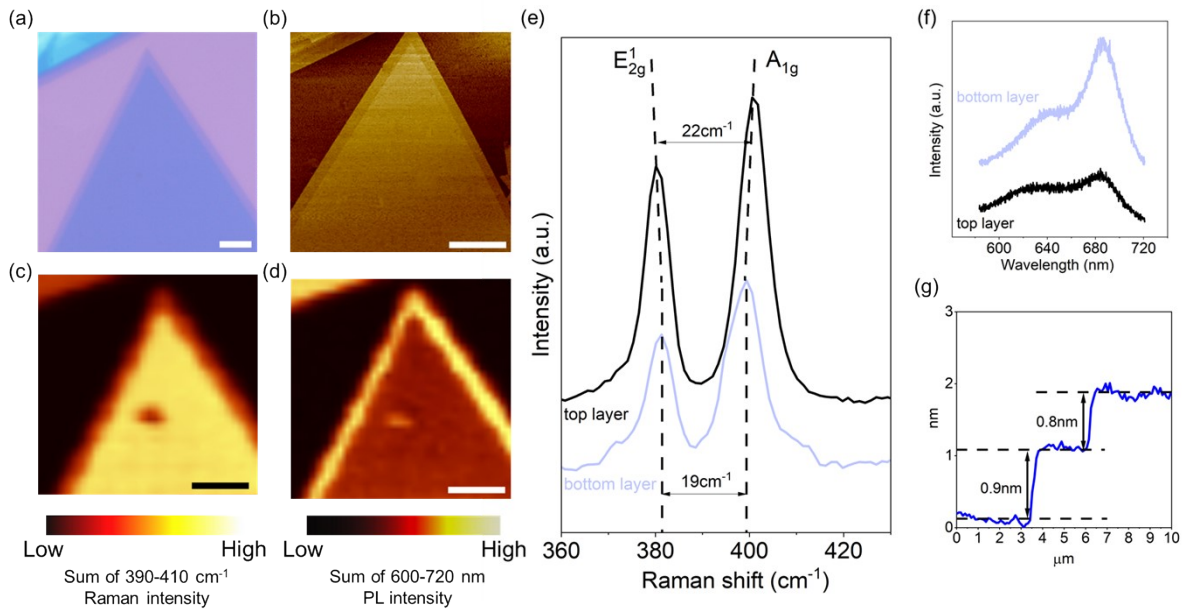


Figure. S1. (a) Optical microscope image of bilayer MoS₂ and (b) atomic force microscope mapping image. (c) Raman and (d) photoluminescence mapping of bilayer MoS₂. Layer-dependent (e) Raman and (f) PL spectra from a top layer and bottom layer from of bilayer MoS₂. The scale bar for all figures is 10 μm.

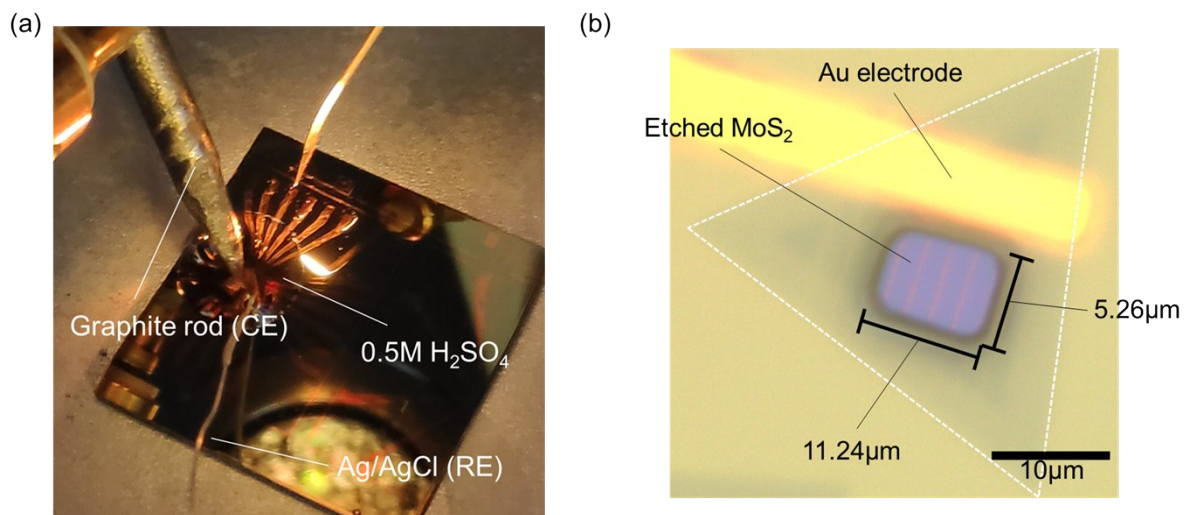


Figure. S2. (a) Image of setup for electrochemical analysis. (b) The optical image of etched MoS₂ hydrogen evolution reaction device. The opened area is 59.1 μm².

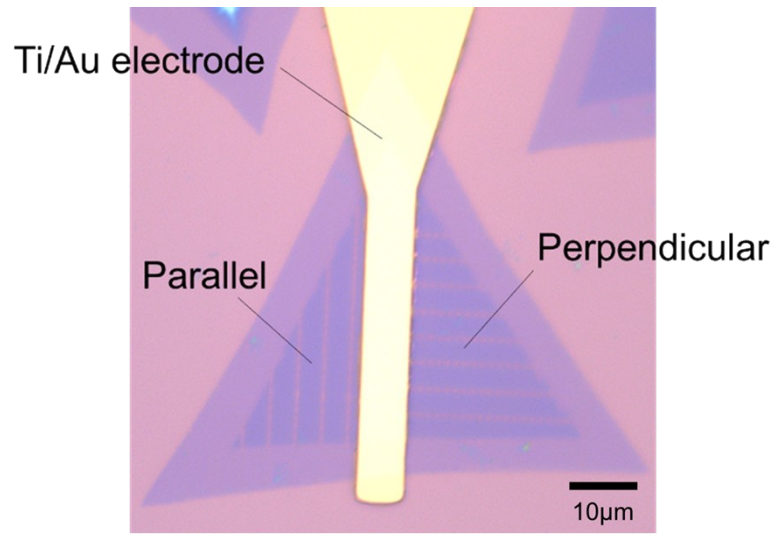


Figure. S3. The optical image of parallel and perpendicular direction etched MoS₂.

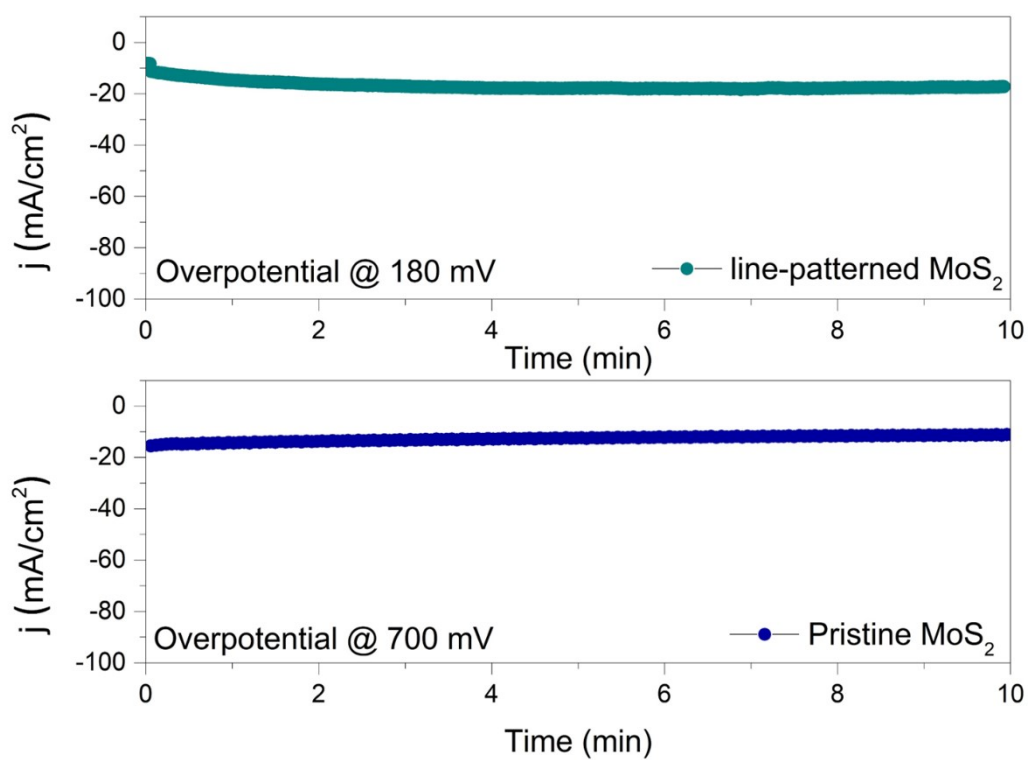


Figure. S4. Stability test of line-patterned and pristine bilayer MoS₂ catalysts.