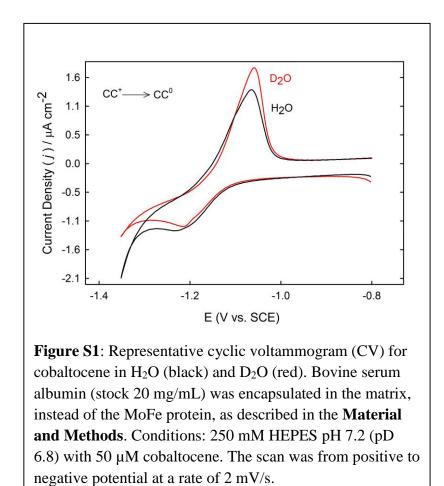
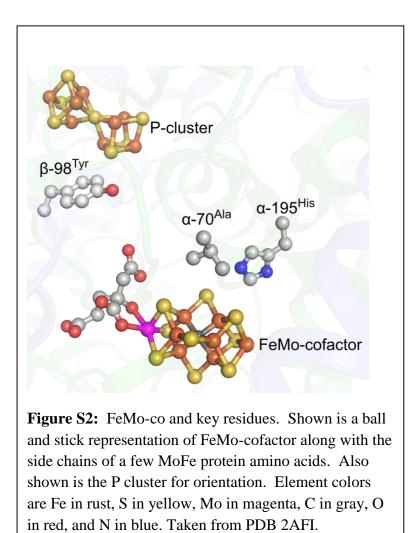
Supplementary Information

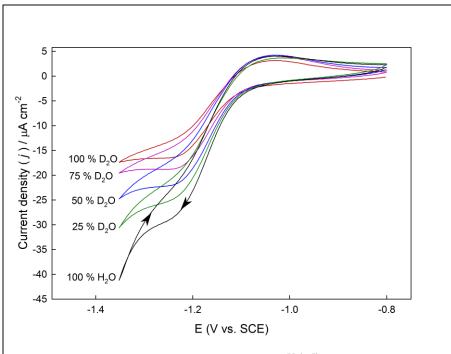
The Mechanism of Nitrogenase H₂ Formation by Metal-Hydride Protonation Probed by Mediated Electrocatalysis and H/D Isotope Effects

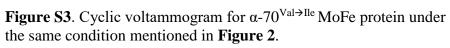
Nimesh Khadka, Ross D. Milton, Sudipta Shaw, Dmitriy Lukoyanov, Dennis R. Dean, Shelley D. Minteer, Simone Raugei, Brian M. Hoffman, Lance C. Seefeldt

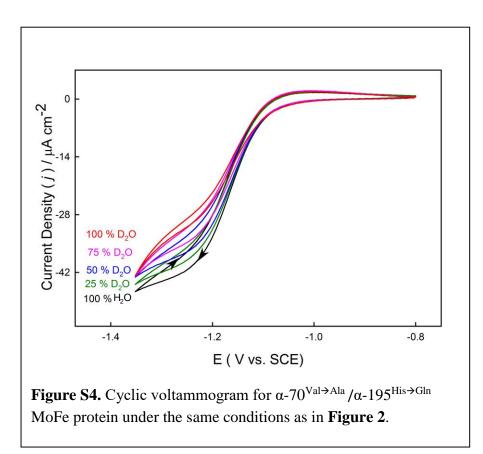
Figures

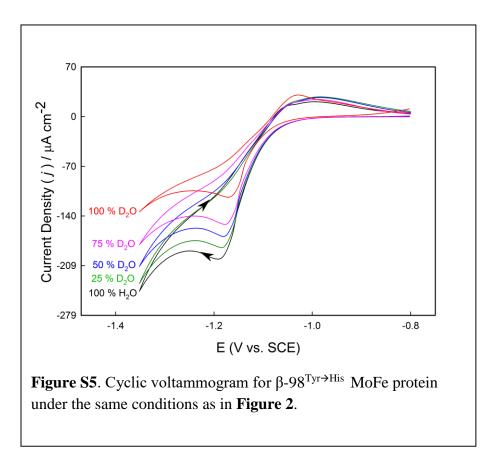


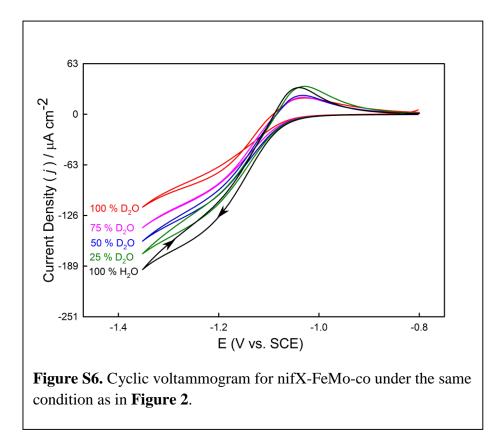












Web Enhanced Objects:

Animation S1: Animation of the H₂ formation transition state. Shown is the oscillation from the $E_2(2H)$ state to the transition state $E_2(2H)^{\ddagger}$ with the breaking S-H bond and the forming H-H bond as red dots. Atom colors are H in gray, Fe in rust, S in yellow, C in dark gray, and Mo is light blue.

Animation S2: Animation of the H₂ formation transition state. Shown is the progression from the $E_2(2H)$ state to the transition state $E_2(2H)^{\ddagger}$ with the breaking S-H bond and the forming H-H bond as red dots. Atom colors are H in gray, Fe in rust, S in yellow, C in dark gray, and Mo is light blue.