Electronic Supplementary Material (ESI) for RSC Advances.

High Performance Nanoporous Silicon Photoelectrodes co-catalyzed with Earth Abundant $[Mo_3S_{13}]^{2-}$ Nanocluster via Drop Coating

Miao Kan,[a] Jinping Jia[a] and Yixin Zhao[a]

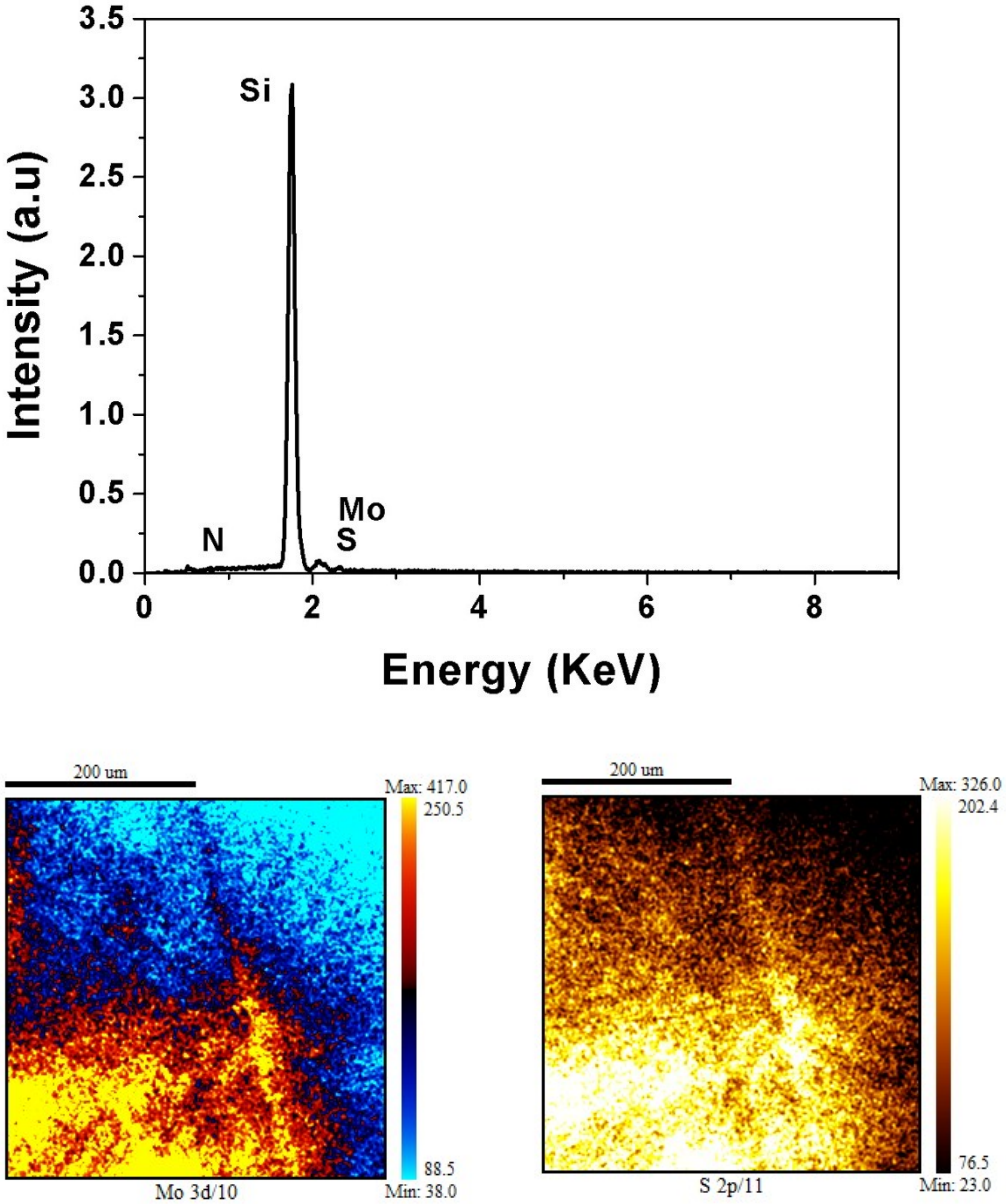

Figure S1 XRD pattern and XPS spectra of $[Mo_3S_{13}]^{2-}$ /b-Si.

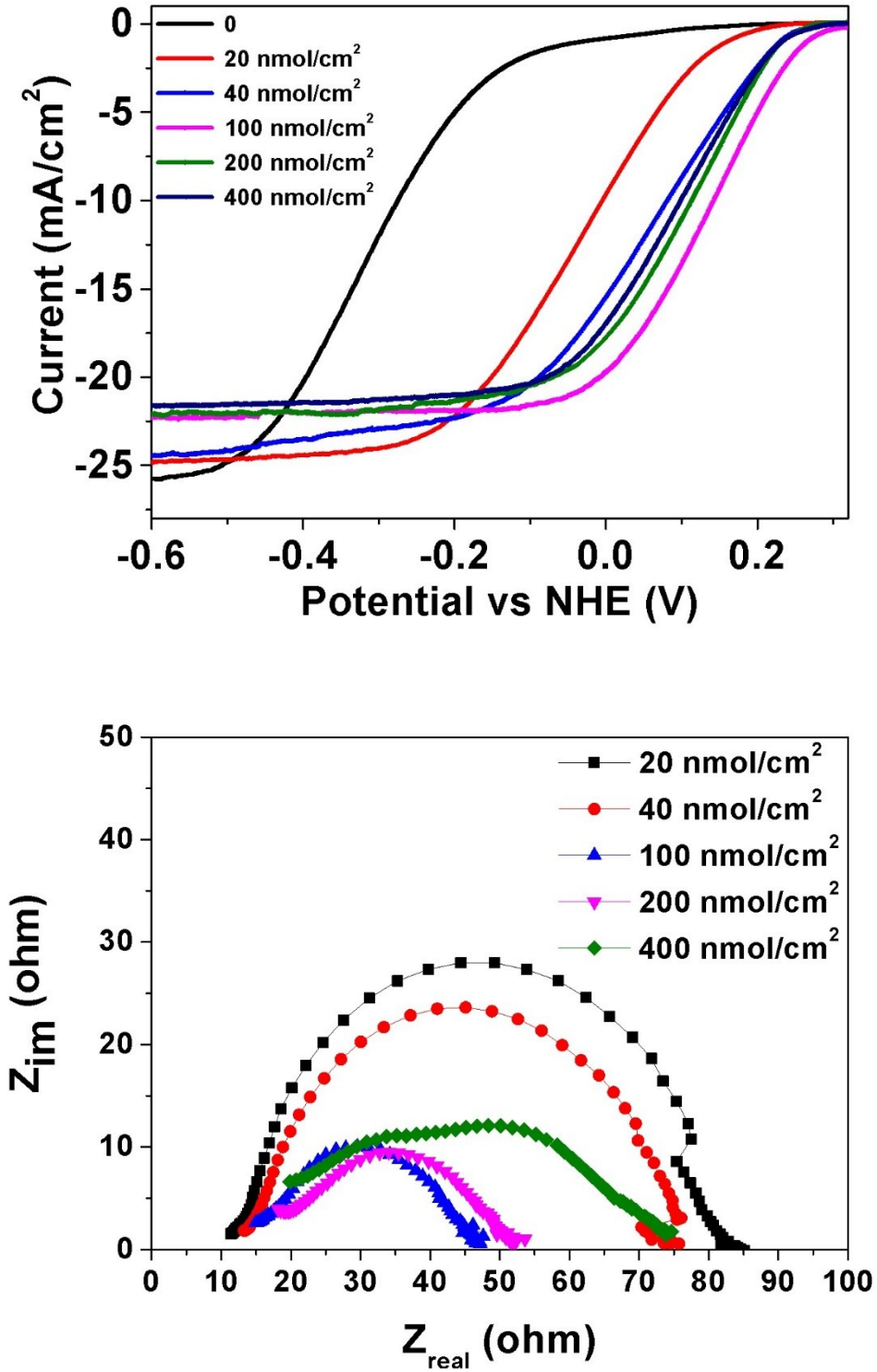

Figure S2. The J-V curves and EIS curves at -0.1V vs RHE of the b-Si deposited with different amount of $[Mo_3S_{13}]^{2-}$ nanoclusters.

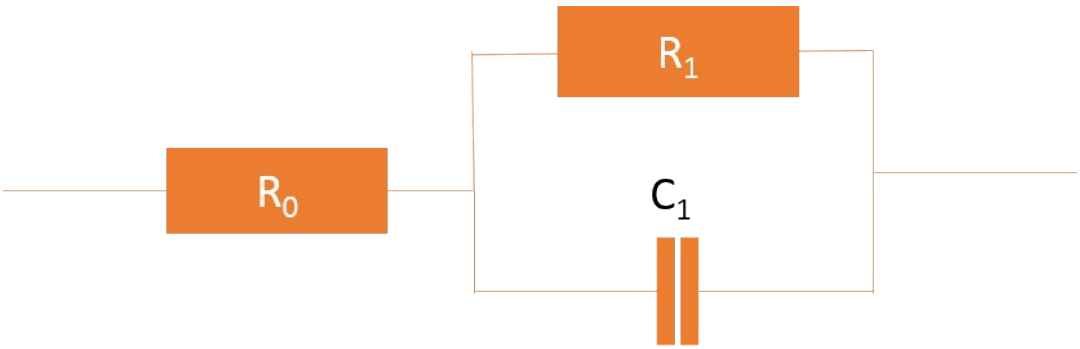

Figure S3. Equivalent model for EIS analysis for pl-Si, b-Si and $[Mo_3S_{13}]^{2-}$/b-Si

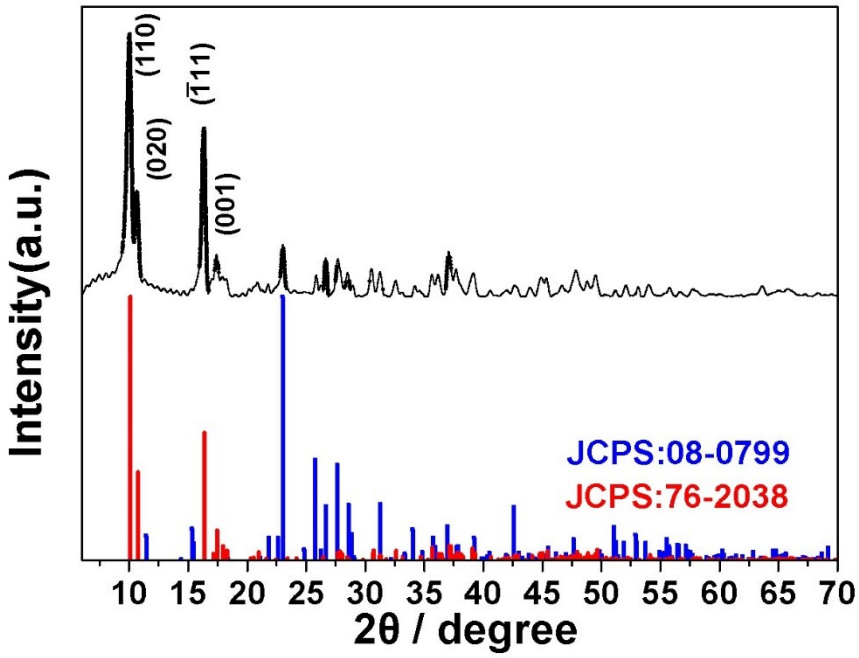

Figure S4. PDF cards of as synthesized molecule, sulfur and $[Mo_3S_{13}]^{2-}$

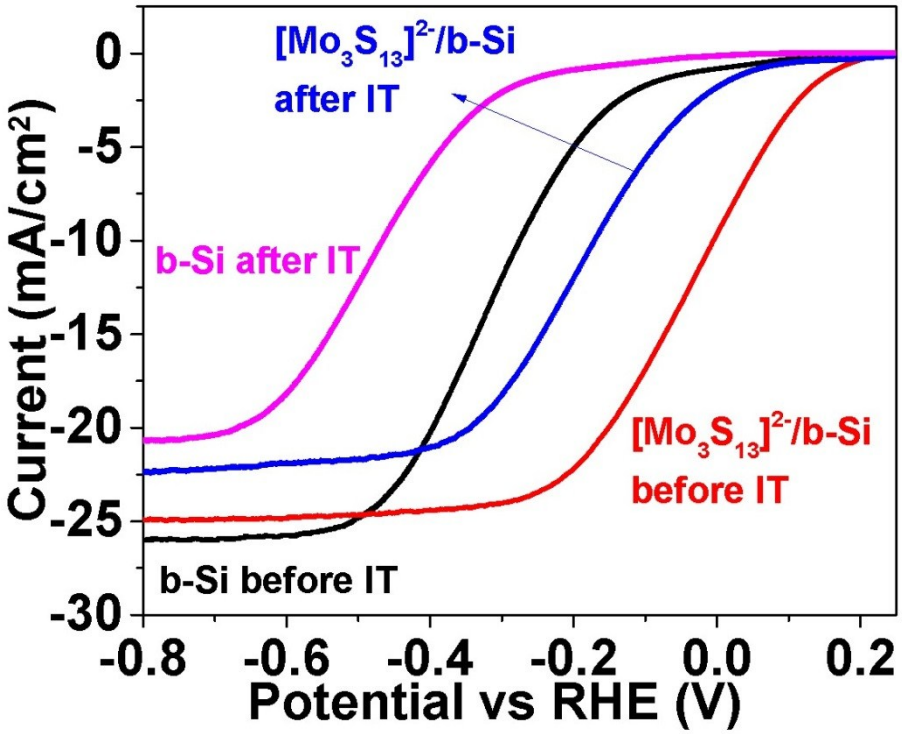

Figure S5. J-V curves for $[Mo_3S_{13}]^{2-}$/b-Si before and after 20000s test