

Different charge-storage mechanisms in Disulfide Vanadium and Vanadium Carbide Monolayer

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Supporting Information

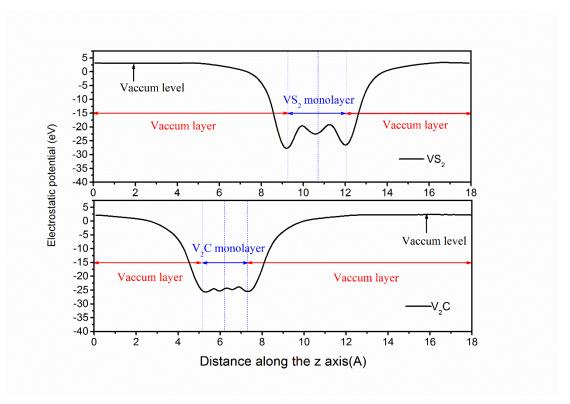


Figure S 1 Electrostatic potential energy of VS₂ and V₂C monolayer along the z axis.

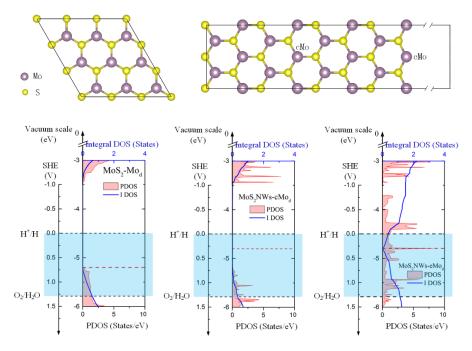


Figure S 2 A schematic showing the structure of MoS_2 , MoS_2 nanoribbon and their relative dispositions of PDOS and Integral DOS of *d*-orbits of Mo atoms in MoS_2 monolayers, inside MoS_2 nanoribbon, and edge MoS_2 nanoribbon shown both on the vacuum scale and with respect to the SHE reference. The dash red lines indicate the Fermi level positions of VS_2 monolayer. The light blue region represents the electrolyte window.