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

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Supporting Information
Figure S 1 Electrostatic potential energy of VS$_2$ and V$_2$C 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.