Supplementary Information

Two-dimensional transition metal carbide (Ti$_3$C$_2$Tx) as an efficient adsorbent to remove cesium (Cs$^+$)

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**Fig. S1** SEM image, EDS spectra and corresponding elemental mapping images of Cs, O, Ti, F, C and Al, respectively from Cs Loaded MXene.

**Fig. S2** SEM images of unloaded MXene (Pristine) and Regenerated MXene after 5 cycles.