

Supporting Information for

Electrostatic Self-Assembly of 0D-2D SnO₂ Quantum Dots/Ti₃C₂T_x

MXene Hybrids as Anode for Lithium-Ion Batteries

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Supplementary Figures

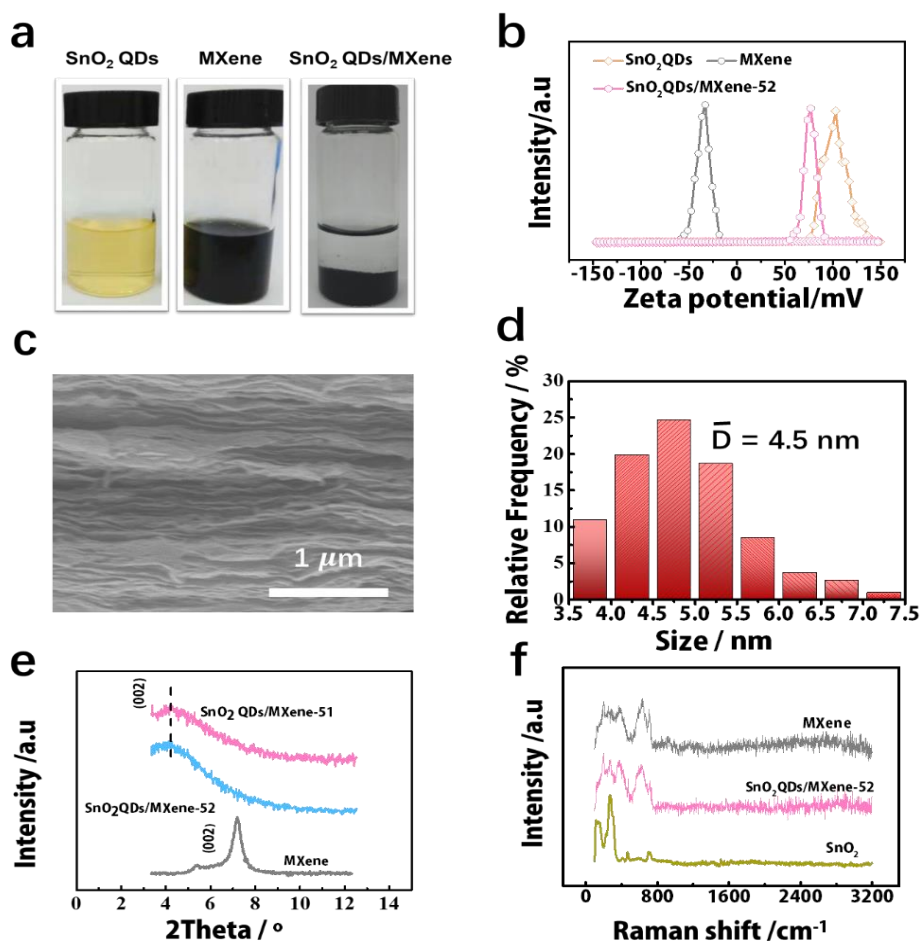


Fig. S1 **a** Digital photographs of SnO₂ QDs solution, MXene suspension, and SnO₂ QDs/MXene hybrid. **b** Zeta potential of SnO₂ QDs, MXene, and SnO₂ QDs/MXene-2. **c** SEM image of MXene nanosheets, and **d** corresponding particle size distribution of the SnO₂ QDs. **e** XRD patterns in low angle range and **f** Raman spectra of the samples

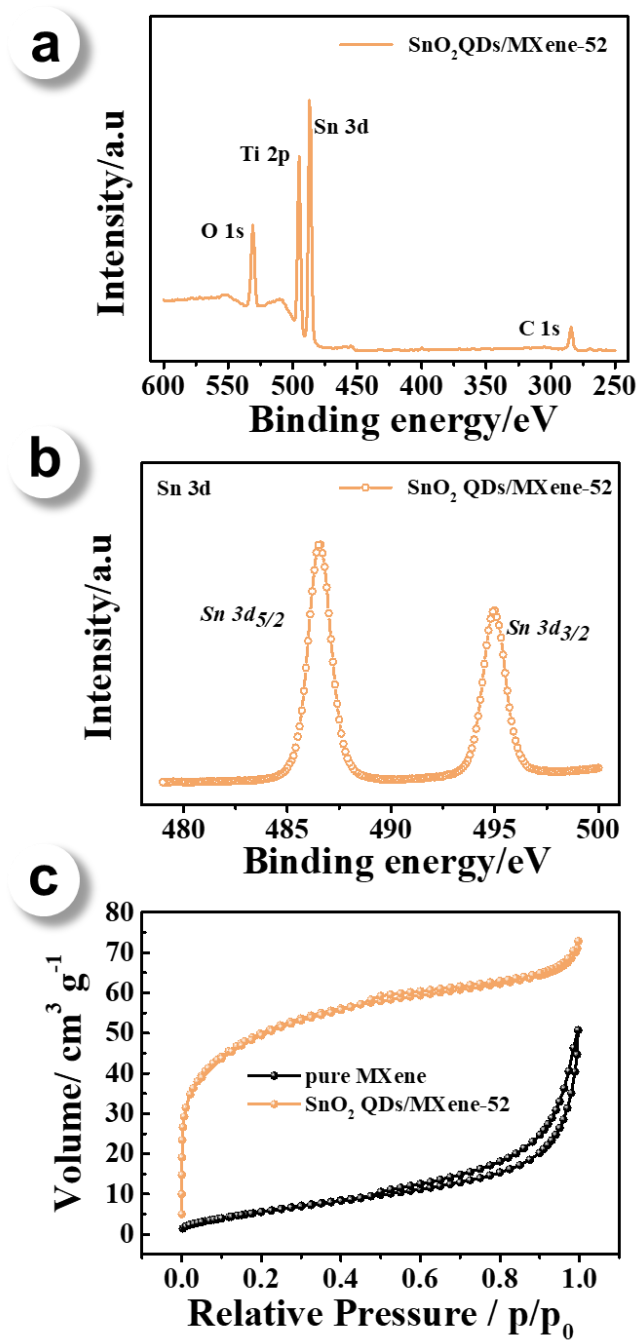


Fig. S2 **a** XPS curves, **b** the Sn 3d spectrum, and **c** N₂ sorption isotherms of SnO₂ QDs/MXene-52

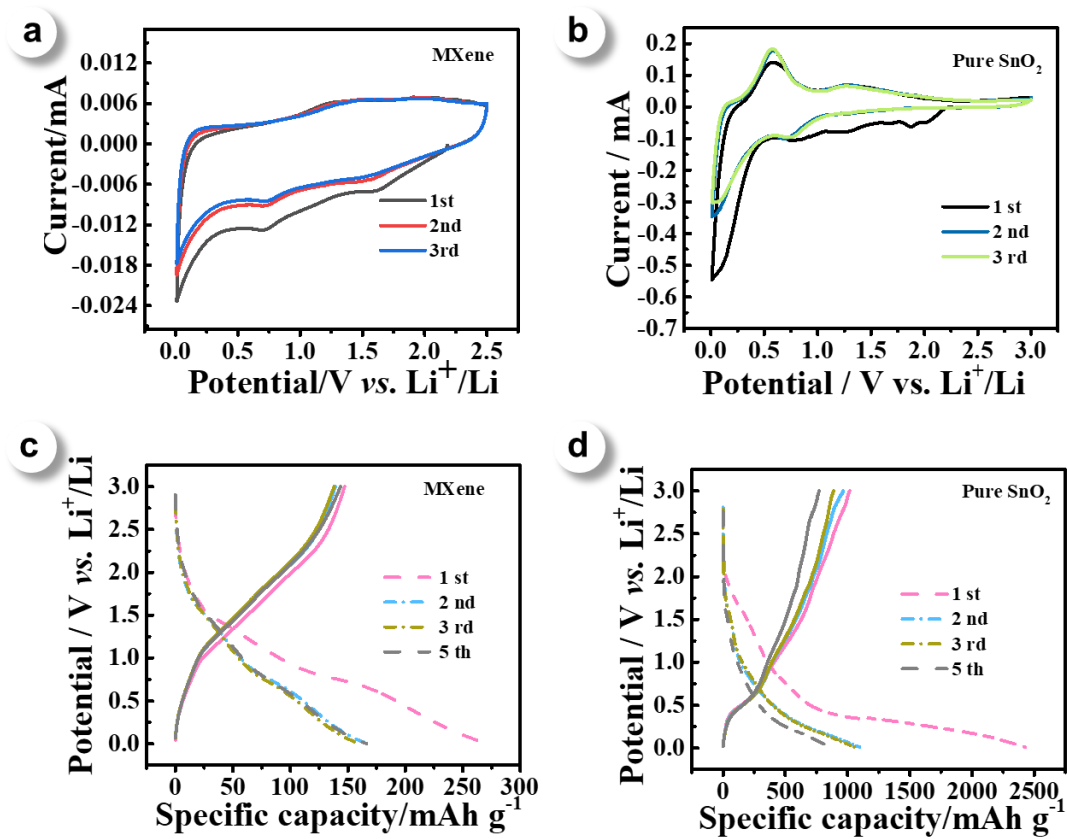


Fig. S3 **a** CV curves of bare MXene and **b** pure SnO₂ QDs at a scan rate of 0.1 mV s⁻¹; Charge/discharge curves of **c** bare MXene and **d** pure SnO₂ at 50 mA g⁻¹