

Few-Layer MoS₂/C with Expanding *d*-Spacing as High-Performance Anode for Sodium Ion Batteries

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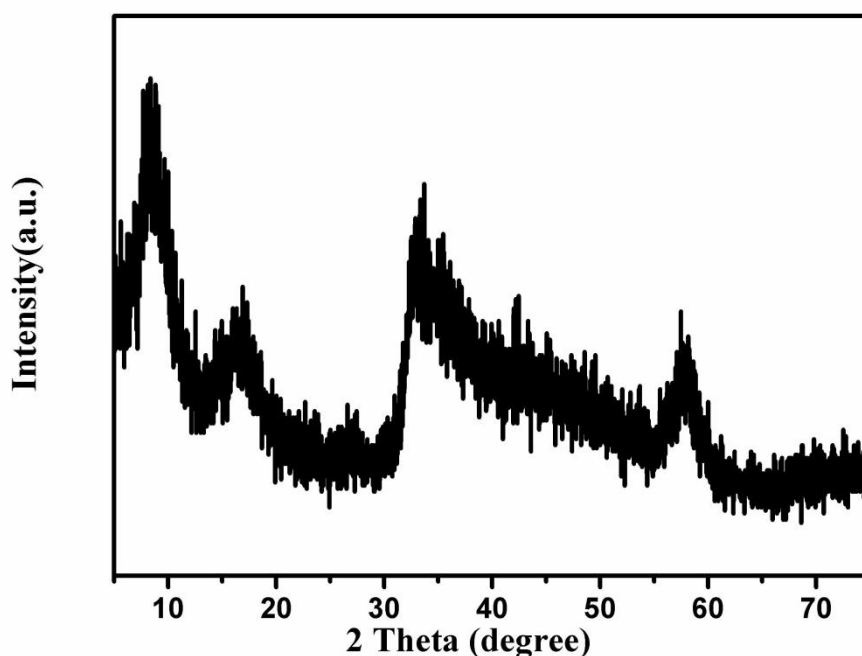


Figure S1 XRD pattern of PVA-MoS₂ -2.5

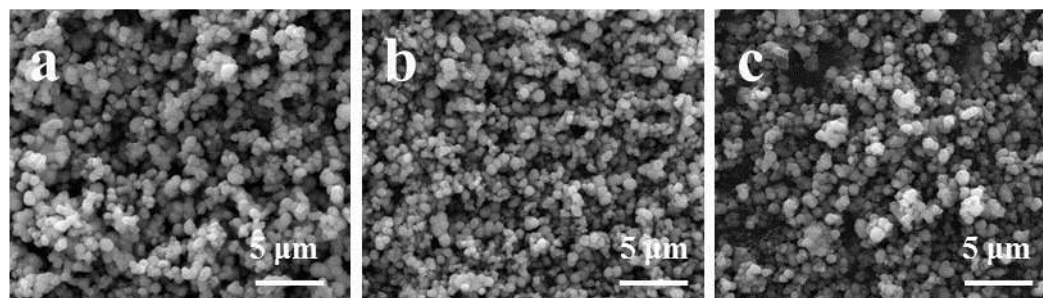


Figure S2 SEM images of (a) MoS₂/C-1.5; (b) MoS₂/C-2.5; (c) MoS₂/C-3;

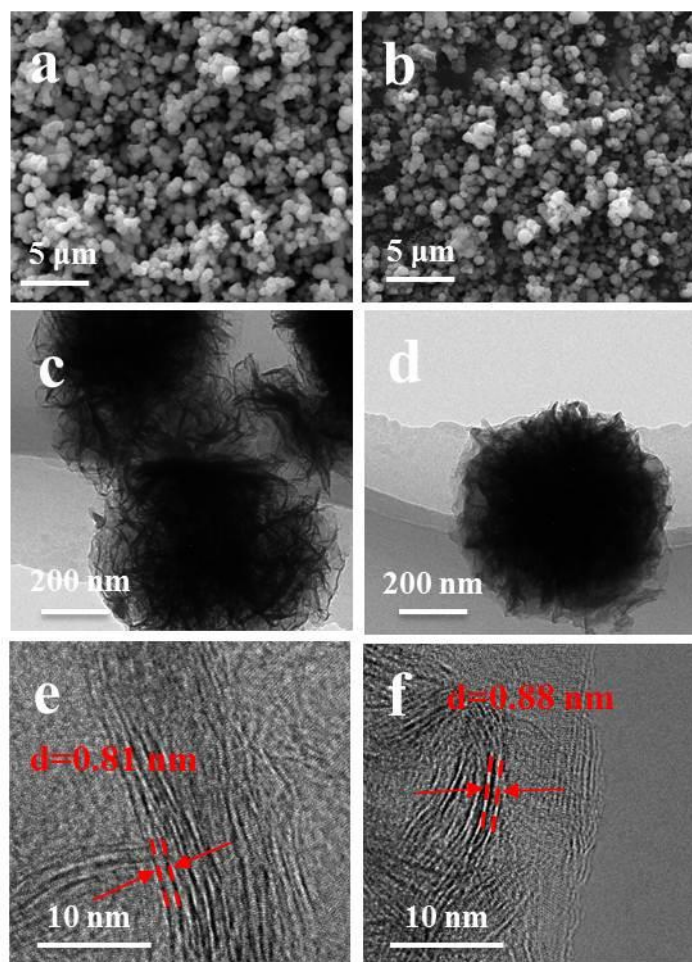


Figure S3 SEM images of (a) MoS₂/C-1.5; (b) MoS₂/C-3; TEM images of (c) MoS₂/C-1.5; (d) MoS₂/C-3; HRTEM images of (e) MoS₂/C-1.5; (f) MoS₂/C-3.

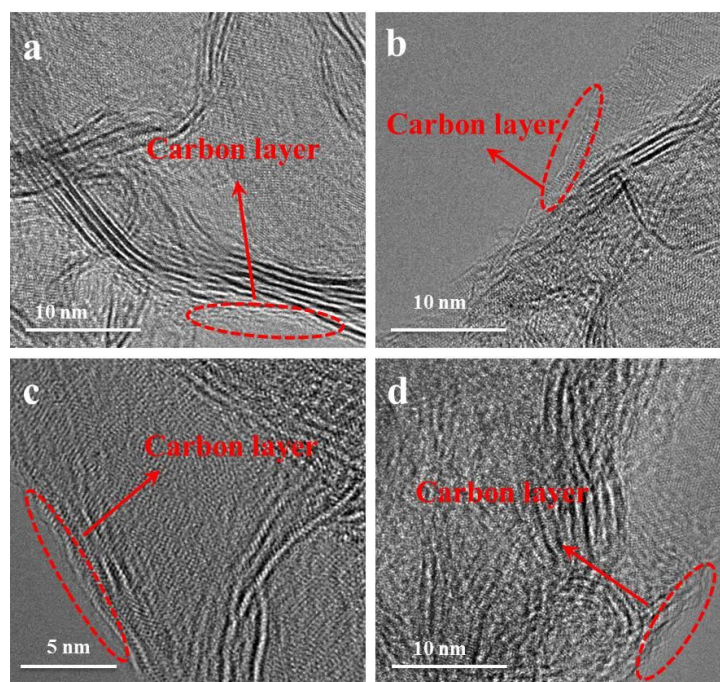


Figure S4 HRTEM images of (a) MoS₂/C-0.5; (b) MoS₂/C-1.5; (c) MoS₂/C-2.5; (d) MoS₂/C-3;

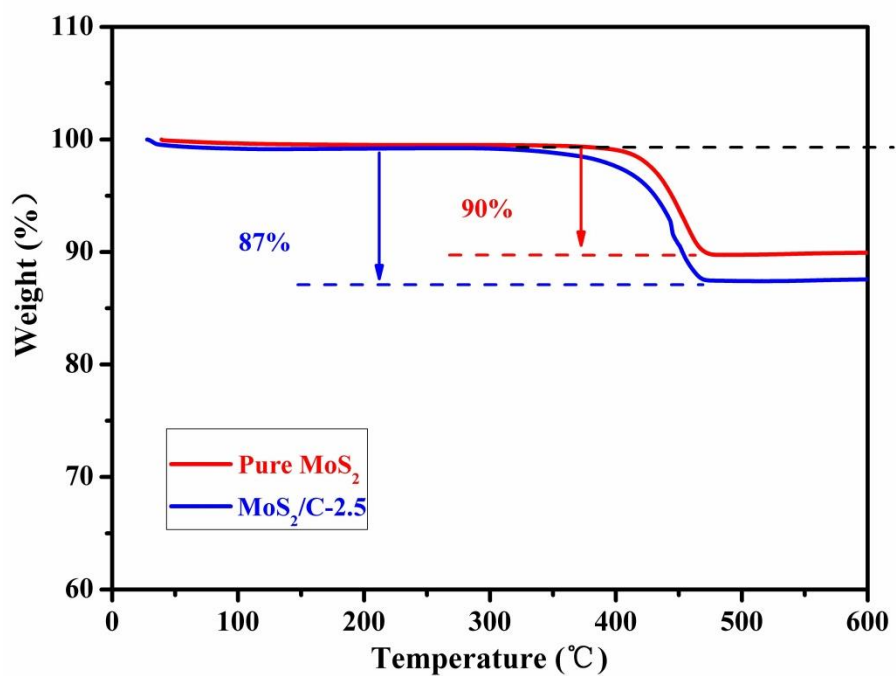


Figure S5 TGA curve of MoS₂/C-2.5

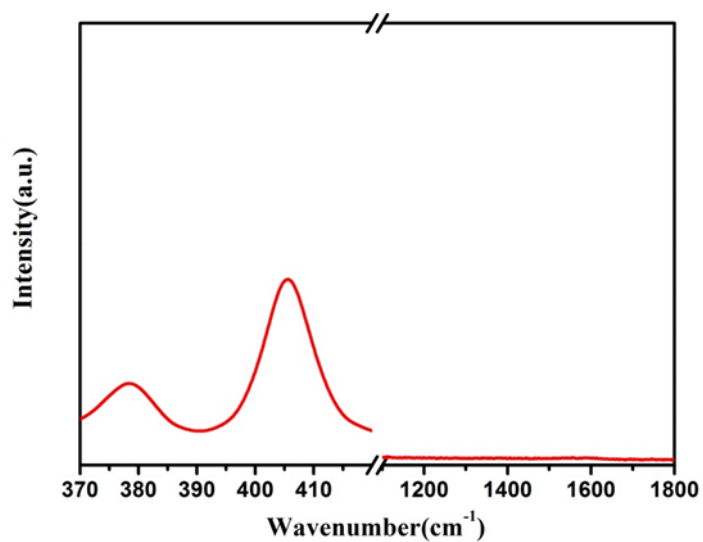


Figure S6 Raman spectrum of pure MoS₂

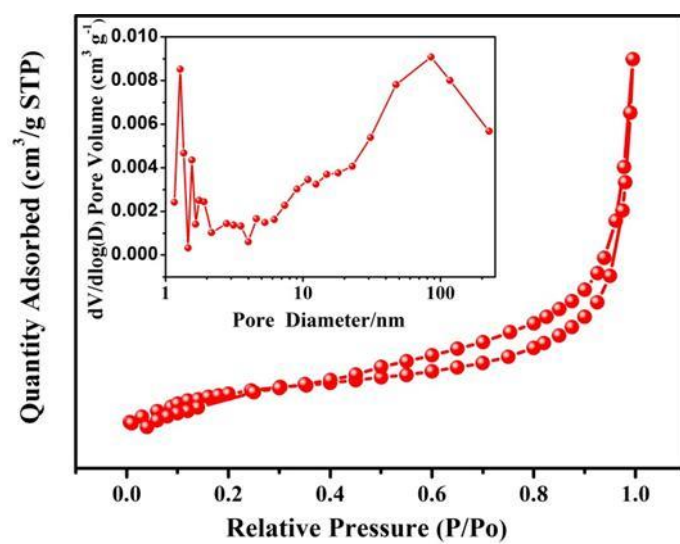


Figure S7 The N₂ adsorption/desorption isotherm and pore size distribution of pure MoS₂

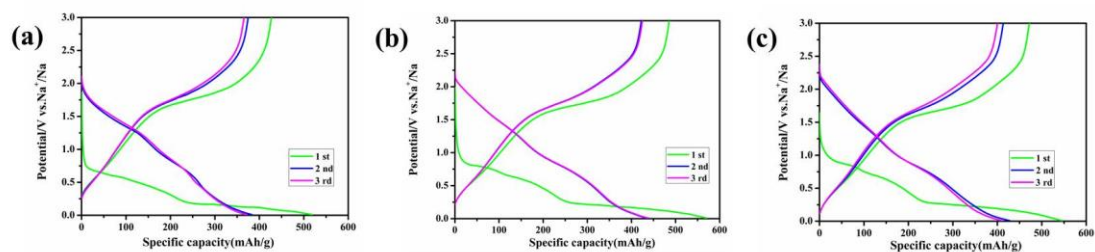


Figure S8 Charge/discharge curves of the (a) $\text{MoS}_2/\text{C}-0.5$; (b) $\text{MoS}_2/\text{C}-1.5$; (c) $\text{MoS}_2/\text{C}-3$ at 200 mA g^{-1} ;

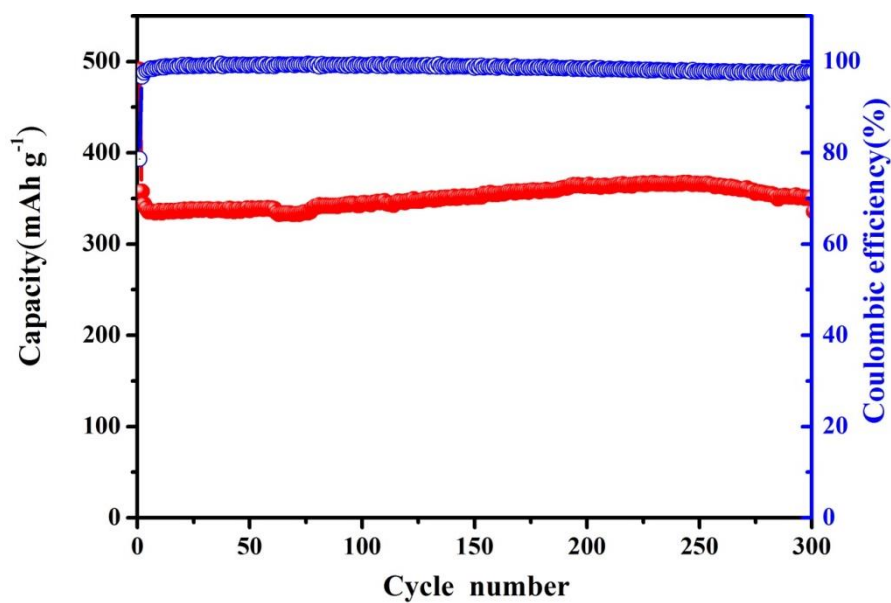


Figure S9 Cycling performances of $\text{MoS}_2/\text{C}-2.5$ at 1 A g^{-1}

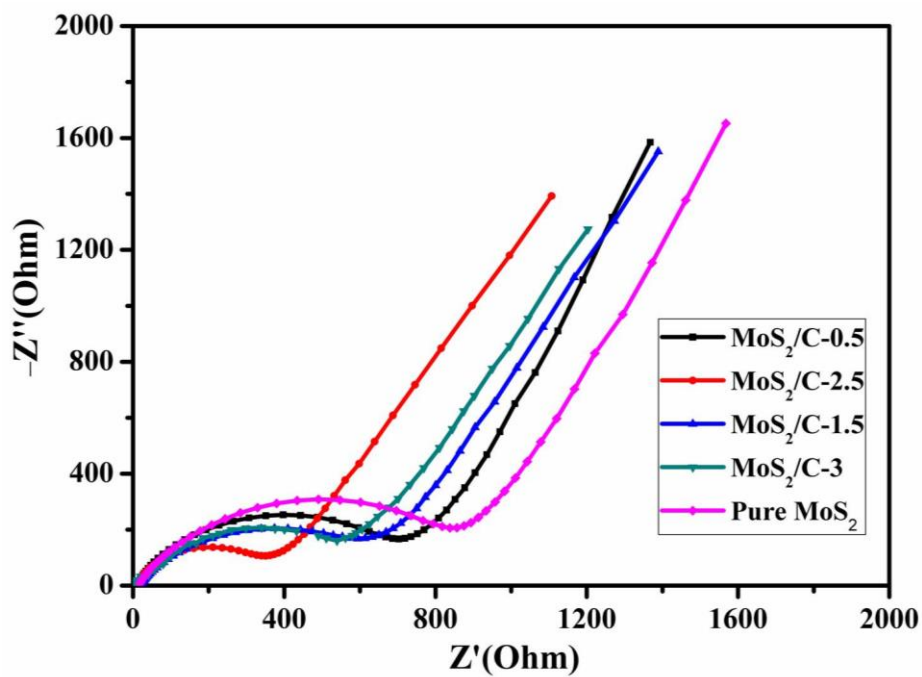


Figure S10 EIS spectra of $\text{MoS}_2/\text{C}-0.5$, $\text{MoS}_2/\text{C}-1.5$, $\text{MoS}_2/\text{C}-2.5$, $\text{MoS}_2/\text{C}-3$ and pure MoS_2 before cycling.

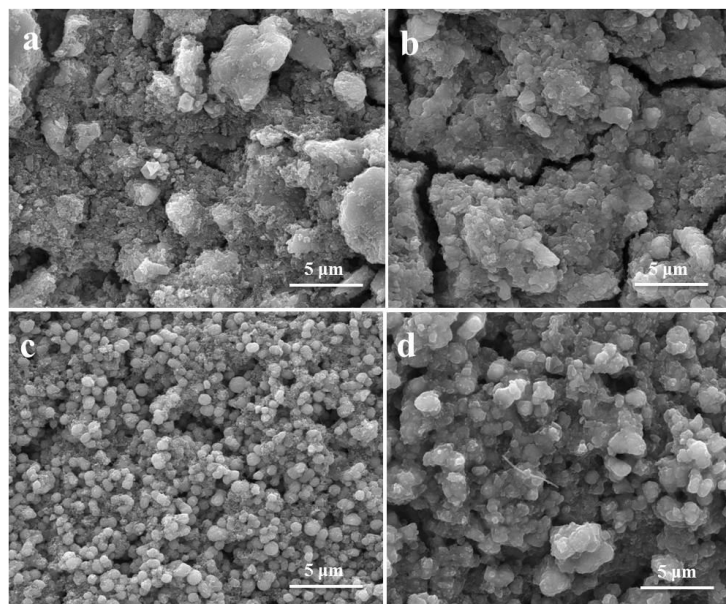


Figure S11 SEM images of pure MoS_2 (a-b), $\text{MoS}_2/\text{C}-2.5$ (c-d) electrode before and after 80 cycles