

Supplementary Information

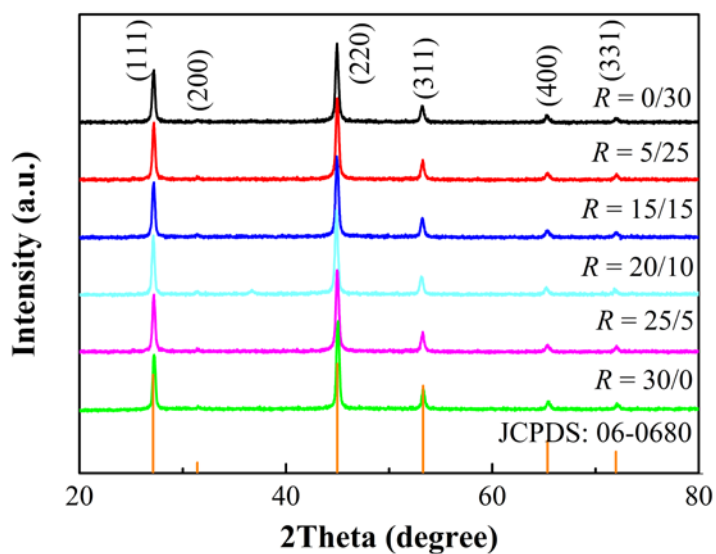


Fig. S1 XRD patterns of Cu_{2-x}Se nanosheets synthesized through a solvothermal process in a different volume ratio of ethylene glycol/water (*R*), (a) *R* = 0/30, (b) *R* = 5/25, (c) *R* = 15/15, (d) *R* = 20/10, (e) *R* = 25/5, (f) *R* = 30/0

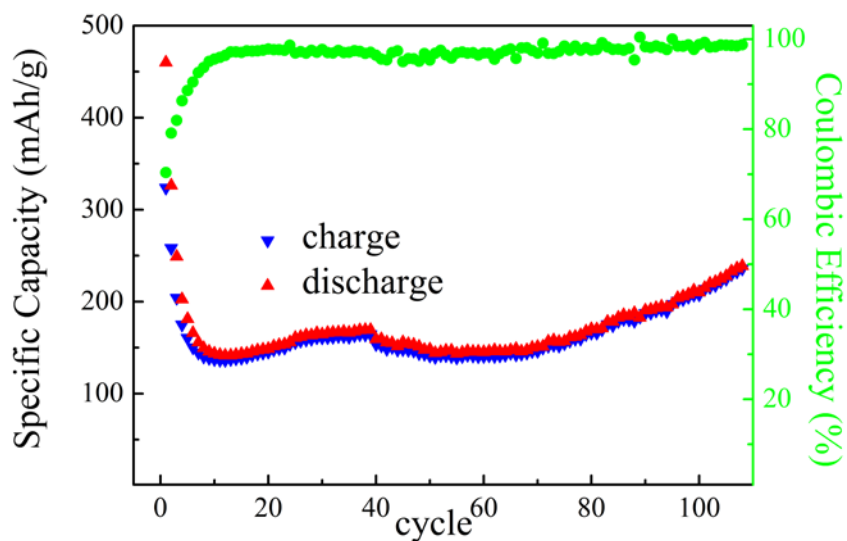


Fig. S2 Charge-discharge capacity, and Coulombic efficiency of Cu_{2-x}Se nanosheets at a current density of 50 mA g⁻¹ with a voltage window of 0.01 V-3 V.

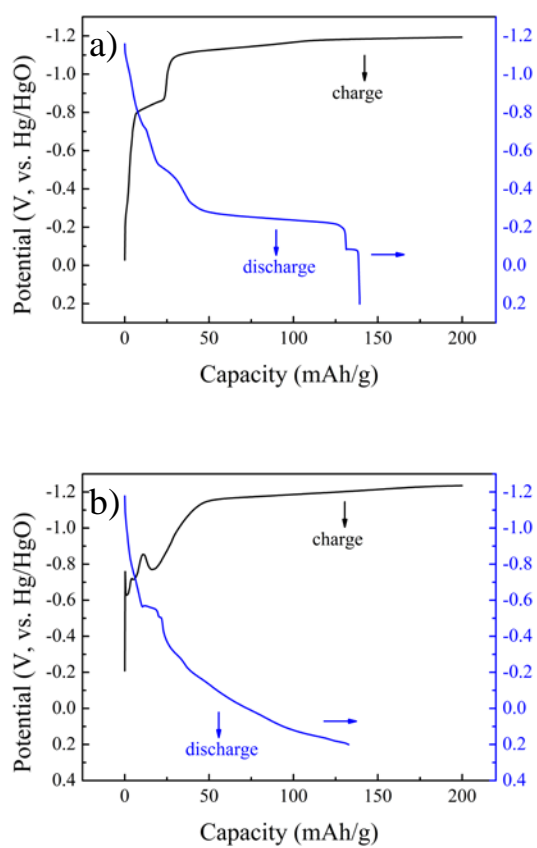


Fig. S3 charge–discharge curve of Cu_{2-x}Se nanosheets measured at a current density of (a) 100 mA g⁻¹, (b) 200 mA g⁻¹.