

## Supplementary Information

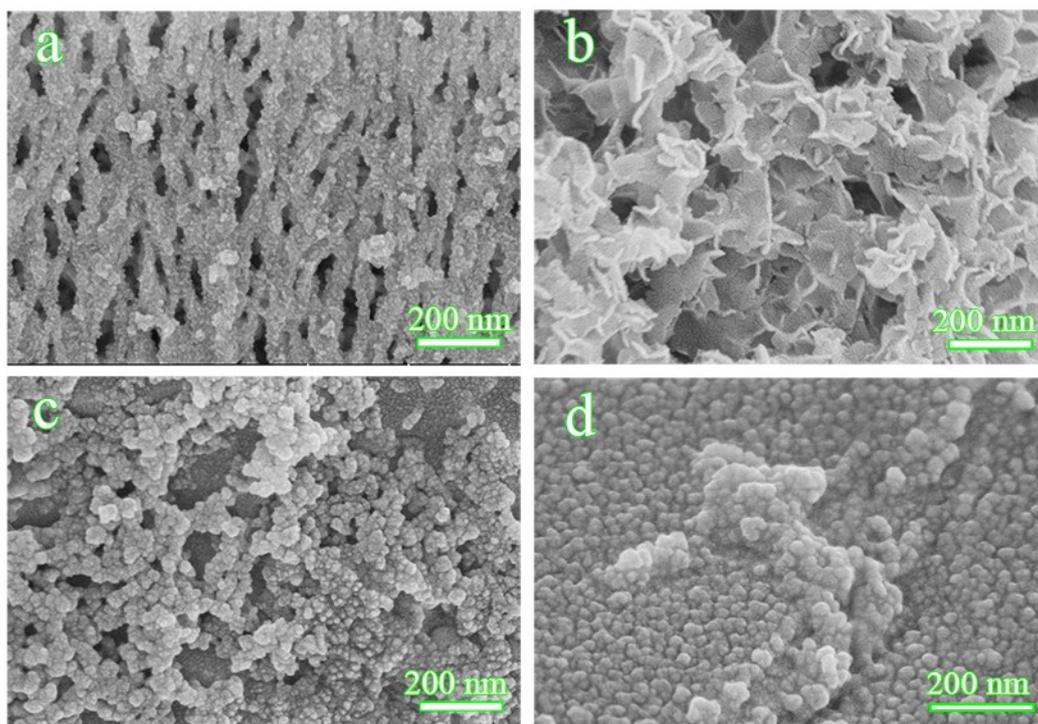
### Directly ultrasonic modification of current collector with enhanced pseudocapacity

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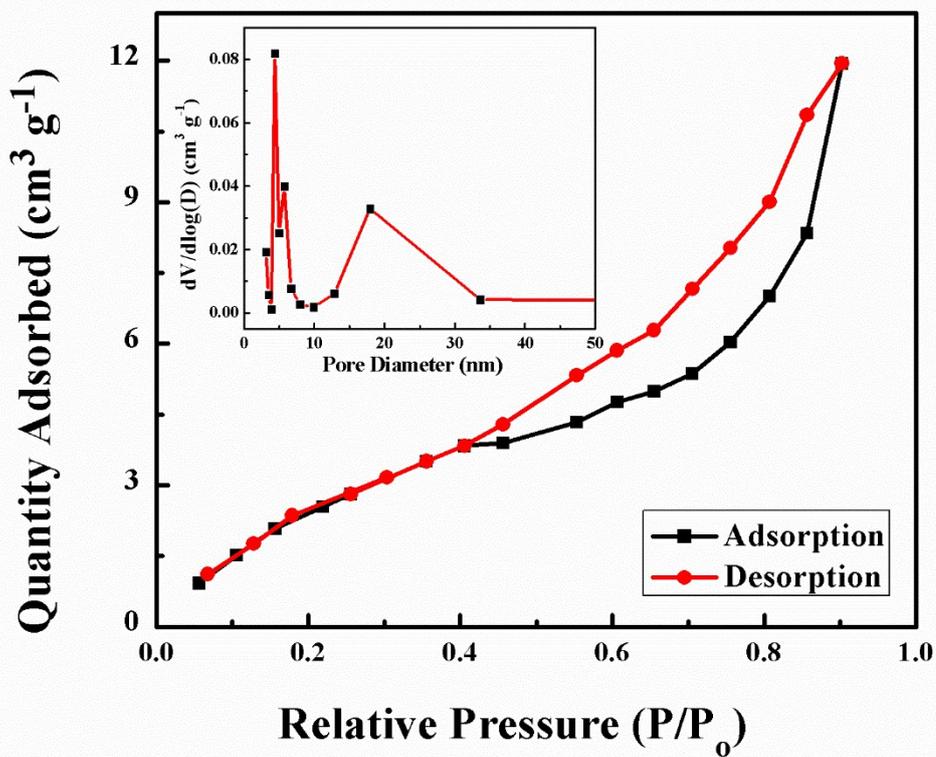
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**Fig.S1.** The SEM images of the modified nickel foam under different temperature. (a) At 5 °C; (b) At 30 °C; (c) At 40 °C; (d) At 50 °C.



**Fig S2.** Nitrogen adsorption–desorption isotherms and corresponding pore size distribution curves (inset) of the modified nickel foam.