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Supplementary material to

$CoNb_2O_6$ embedded in graphene nanosheets as an advanced intercalation anode for high-energy lithium-ion capacitors

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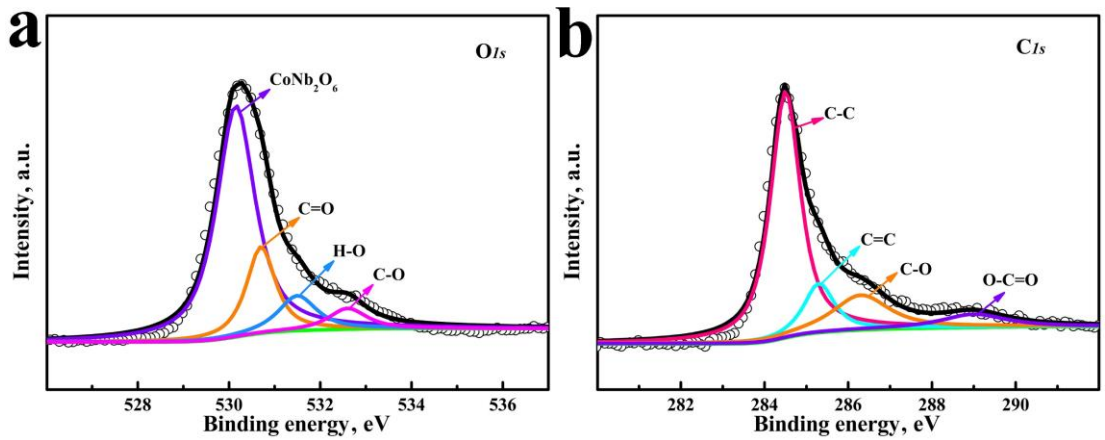

Figure S1. *High-resolution XPS spectra of O 1s (a) and C 1s (b) of $CoNb_2O_6$@G-100mg*

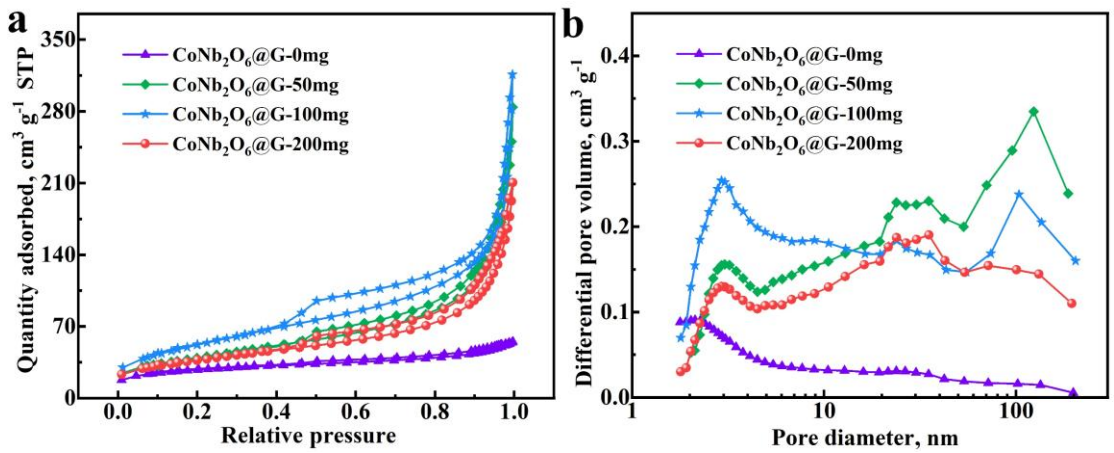

Figure S2. *(a) N_2 adsorption-desorption isotherms and (b) pore size distribution curves of $CoNb_2O_6$@G-x*

Table S1. *Specific surface area of the samples prepared with different amounts of graphene*

Sample	BET surface area, m^2g^{-1}	Desorption average pore diameter (by BET), nm
$CoNb_2O_6$@G-0mg	91.6	5.56
$CoNb_2O_6$@G-50mg	141.45	13.98
$CoNb_2O_6$@G-100mg	191.51	9.47
$CoNb_2O_6$@G-200mg	130.65	11.36

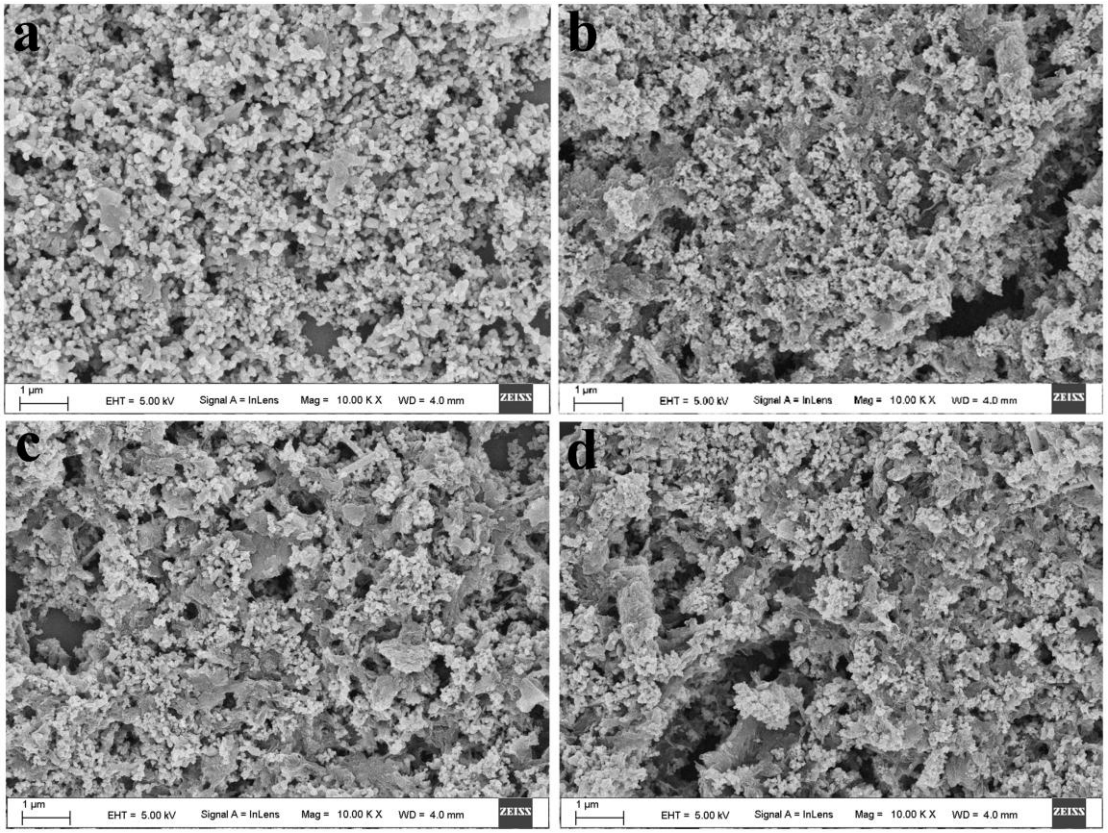

Figure S3. *SEM images of $CoNb_2O_6$@G-0mg (a), $CoNb_2O_6$@G-50mg (b), $CoNb_2O_6$@G-100mg (c) and $CoNb_2O_6$@G-200mg (d)*

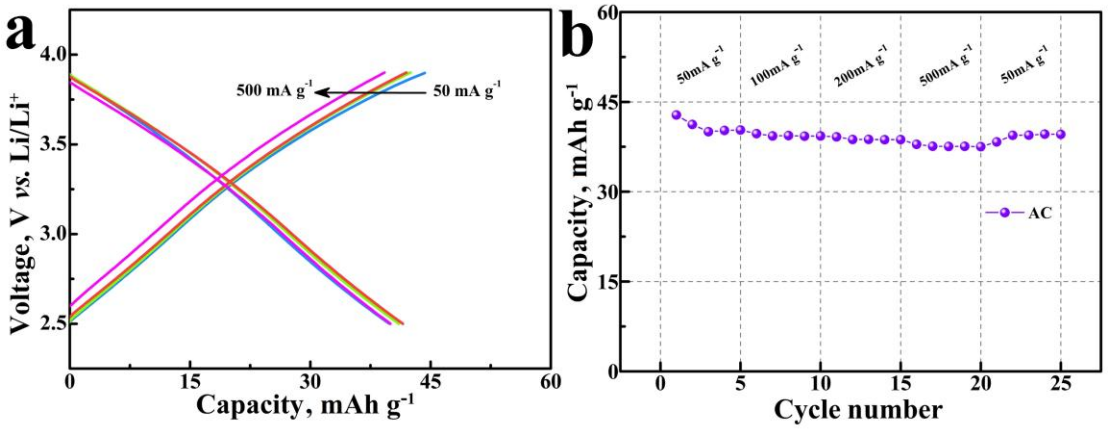

Figure S4. *Electrochemical performance of AC*