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## **Supplementary Materials**

## Preparation of Eggplant-derived Macroporous Carbon Tubes and Composites of EDMCT/Co(OH)(CO<sub>3</sub>)<sub>0.5</sub>Nano-cone-arrays for High-performance Supercapacitors

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**Fig. S1.SEM** images of  $Co(OH)(CO_3)_{0.5}$  arrays/ macroporous carbon tubes composites obtained at different time and magnifications. (A, A')1.5h, (B, B') 3h, (C, C') 4.5h, (D, D') 6h. (the substrate in the figure is the wall of the EDMCT)

Tab. S	S1.the	specific	surface	area and	porosity	parameters	of the	e EDMCT,	CCH and	S-3
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amplas	$\mathbf{S}_{\mathrm{BET}}$	$\mathbf{S}_{langmuir}$	V <sub>pore</sub>	V <sub>micro</sub>	Daver
samples	$[m^2 g^{-1}]$	$[m^2 g^{-1}]$	$[cm^3 g^{-1}]$	$[cm^3 g^{-1}]$	[nm]
EDMCT	163.05	257.83	0.095	0.048	3.81
ССН	15.96	27.93	0.020	0.003	5.05
S-3	47.03	118.05	0.066	0.016	10.17

 $S_{BET}$ : BET surface area

S<sub>langmuir</sub>: Langmuir surface area

 $V_{\text{pore}}$ : Total pore volume

V<sub>micro</sub>: Micropore volume

D<sub>aver</sub>: Average pore size



**Fig. S2.** The electrochemical performance of pure CCH in 6M KOH in a three-electrode system. (A) The cyclic voltammetry curves of the pure CCH; (B) the galvanostatic charge-discharge plots of the pure CCH; (C) the specific capacitance values calculated by the galvanostatic charge-discharge plots; (D) the Nyquist impedance plot of the pure CCH.



**Fig. S3.** The (A) SEM image and (B) XRD pattern of the electrode materials (S-3) after the cycle stability test for 1500 times.