

## Supporting Information

### Nickel Cobaltite@Poly(3,4-ethylenedioxyppyrole) and Carbon Nanofiber Interlayer Based Flexible Supercapacitor

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#### CV plots of PEDOP//PEDOP cell

Cyclic voltammograms of the PEDOP//PEDOP based symmetric cell with the same electrolyte: 3 M KOH/Agar were recorded and are shown below in Figure S1. The figure shows that the PEDOP//PEDOP symmetric cell on Ni foam gives areal capacitances of 0.012 and 4.4 mF cm<sup>-2</sup> at 500 and 5 mV s<sup>-1</sup>.

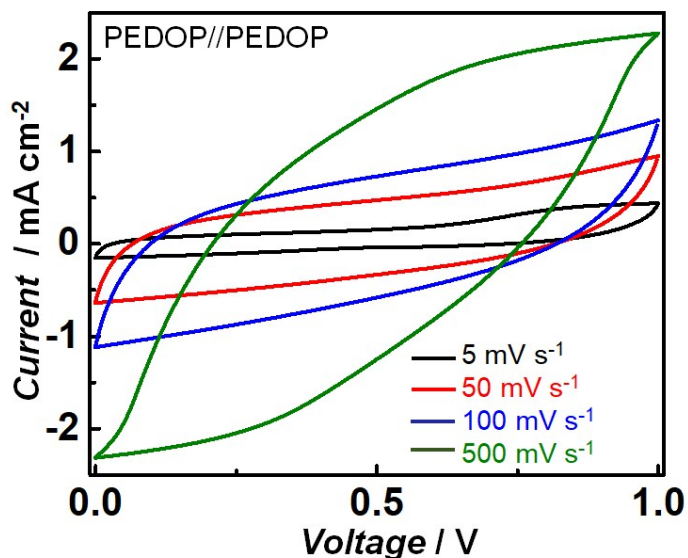


Figure S1 Cyclic voltammograms of PEDOP//PEDOP cell recorded at different scan rates over a voltage range of 0 to 1 V.

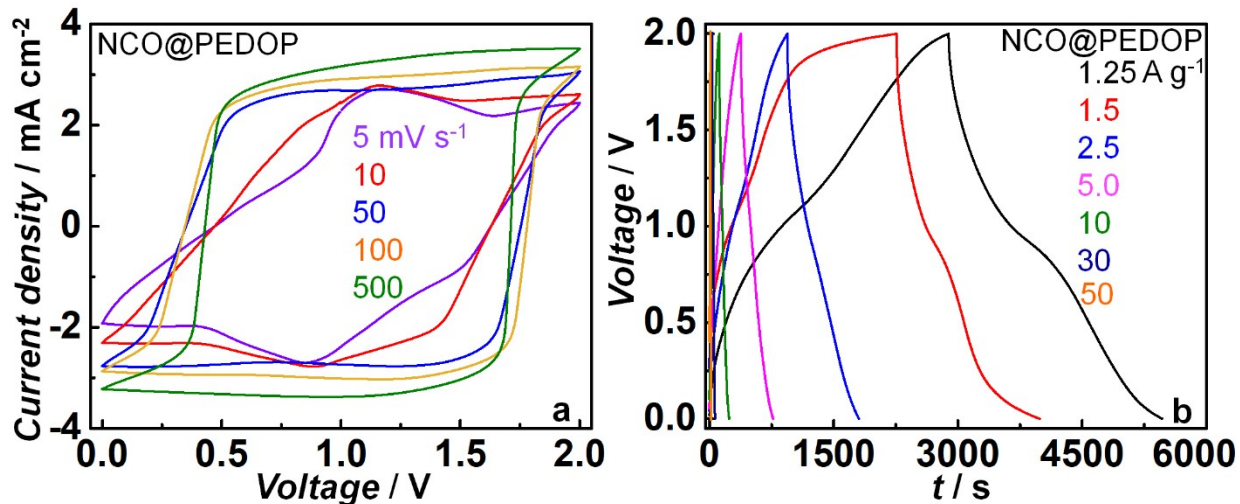


Figure S2 (a) Cyclic voltammograms and (b) galvanostatic charge-discharge characteristics of symmetric NCO@PEDOP//NCO@PEDOP cells.

Table S1 Comparison of performance parameters of NCO based supercapacitors.

Electrode material	SC (F g <sup>-1</sup> )	Current density (A g <sup>-1</sup> )	SC retention (%) (A g <sup>-1</sup> , cycles)	Reference
NiCo <sub>2</sub> O <sub>4</sub>	720	2	77 (5, 1700)	1
NiCo <sub>2</sub> O <sub>4</sub>	726.8	1	72.7(5, 2000)	2
NiCo <sub>2</sub> O <sub>4</sub>	1609	1	85 (10, 1000)	3
RGO@NiCo <sub>2</sub> O <sub>4</sub>	1278	1	95.5 (5, 1000)	4
NiCo <sub>2</sub> O <sub>4</sub> @PPy	2244	1	89.2 (3, 1000)	5
NiCo <sub>2</sub> O <sub>4</sub>	1538	10	92.3 (10, 2500)	6
NiCo <sub>2</sub> O <sub>4</sub> @CNT/CNT	1590	0.5	95 (0.5, 5000)	7
NiCo <sub>2</sub> O <sub>4</sub> @PANI	901	1	91(10,3000)	8
NiCo <sub>2</sub> O <sub>4</sub> /MSBPC	1696	1	88 (5, 2000)	9
NCO@PEDOP/CNF//CNF/NCO@PEDOP	1775	0.96	99 (20, 5000)	This work

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