

Supporting Information

Core/Shell Structure Halloysite/Polyaniline Nanotubes with Enhanced Electrochromic Properties

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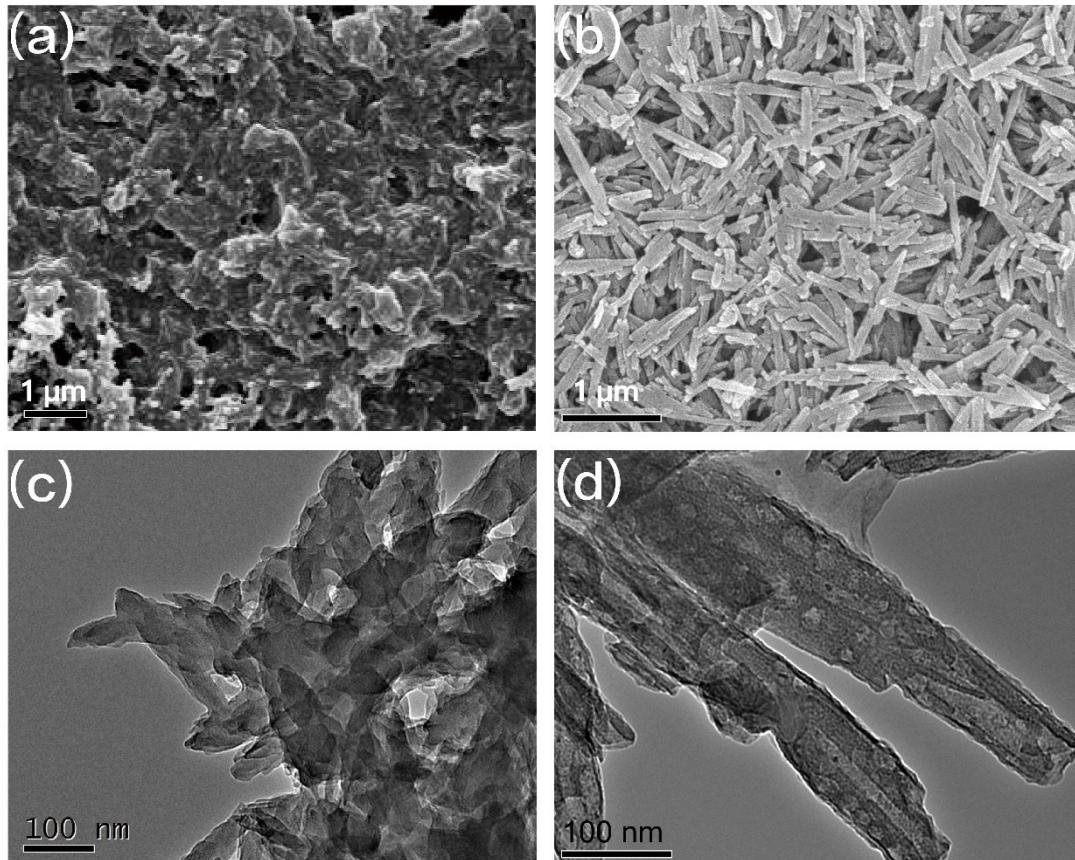


Figure S1. SEM images of (a) PANI and (b) 25PANI/75HNT; TEM images of (c) PANI and (d) 25PANI/75HNT.

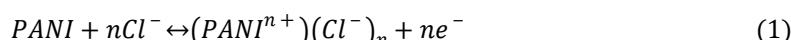


Figure S2. The reactions in the oxidation-reduction process.

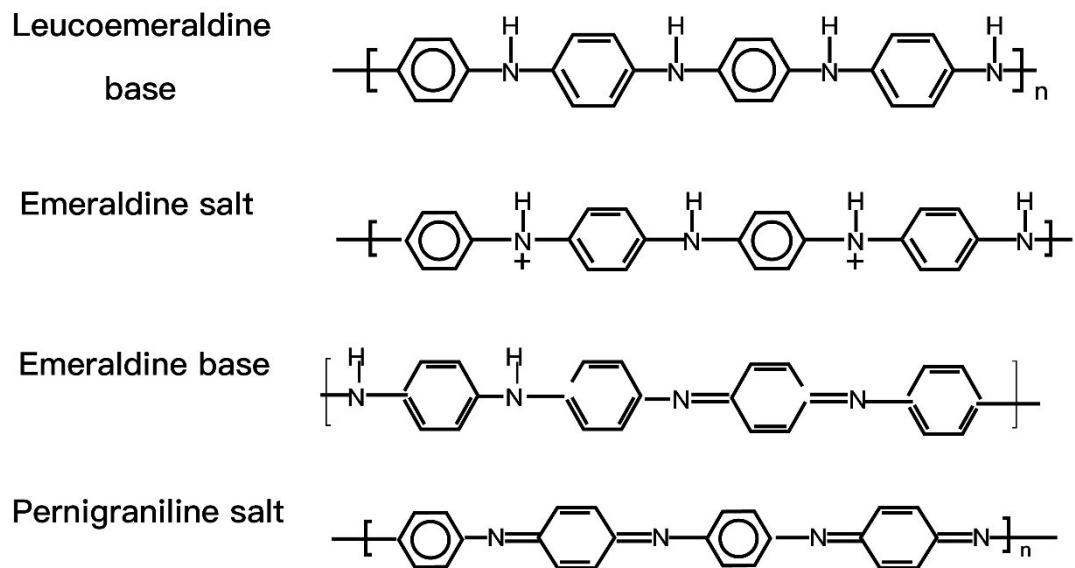


Figure S3. Main molecular structures of LB, ES, EB and PS.

Table S1. Current and Potential from **Figure 4**.

samples	A ₁		A ₂		C ₁		C ₂	
	Current (mA/cm ²)	Potential (V)						
Pure PANI	0.009	0.511	0.010	0.951	-0.009	-0.230	-0.011	0.185
75PANI/25HNT	0.012	0.464	0.008	0.862	-0.008	-0.116	-0.013	0.269
50PANI/50HNT	0.006	0.329	0.003	0.710	-0.003	-0.044	-0.008	0.396
25PANI/75HNT	0.005	0.367	0.003	0.735	-0.003	-0.044	-0.007	0.341

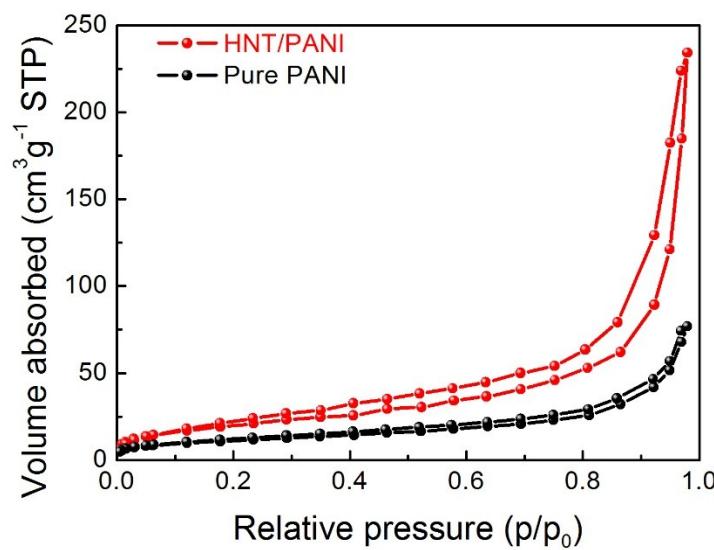


Figure S4. Nitrogen adsorption (solid symbol)/desorption (hollow symbol) isotherms.

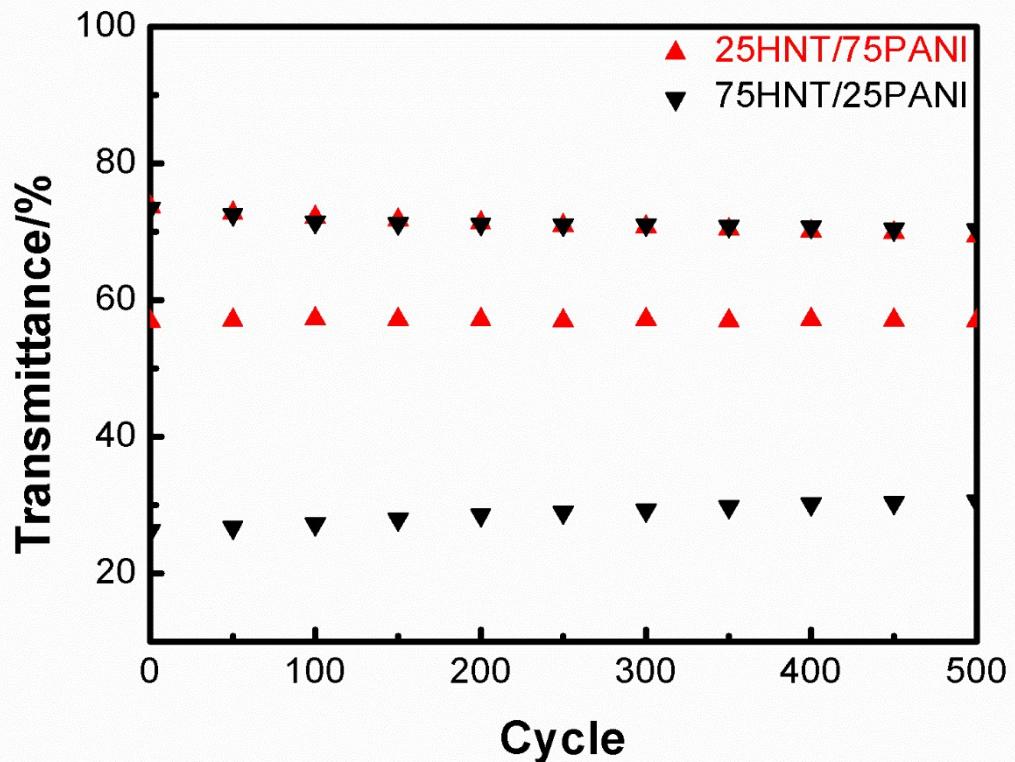


Figure S5. The cycling stability test of the 25HNT/75PANI and 75HNT/25PANI.

Table S2.The charge values and current density of each materials

Samples	Charge values (C/cm ²)	Current density (mA/cm ²)
PANI	0.08576	0.009
25HNT/75PANI	0.15105	0.012
50HNT/50PANI	0.06447	0.006
75HNT/25PNAI	0.06358	0.005