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Hybrid MnO₂/Disordered Mesoporous Carbon Nanocomposites: Synthesis and Characterization as
Electrochemical Pseudocapacitor Electrodes

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Supplementary Information

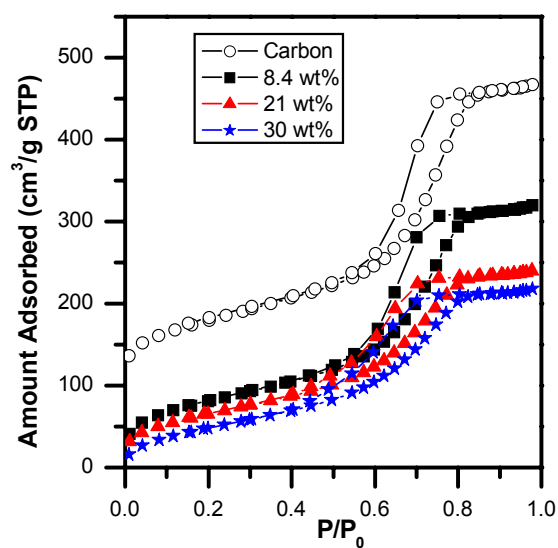


Figure S1. Nitrogen sorption isotherms for mesoporous carbon and MnO₂/C nanocomposites for various compositions.

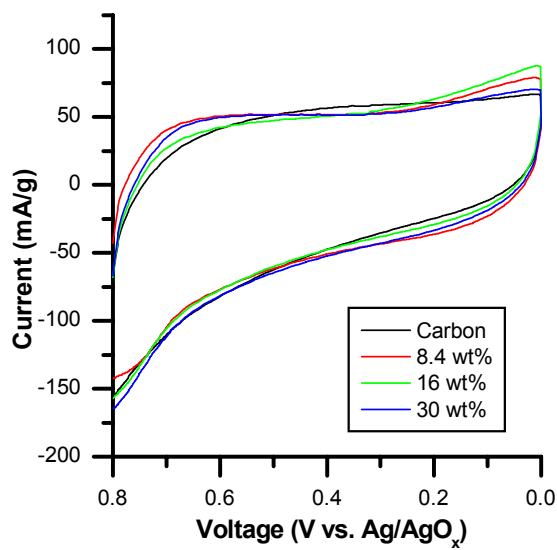


Figure S2. Cyclic voltammetry of the mesoporous carbon and MnO₂/C nanocomposite for various compositions at 2 mV/s in 0.5 M TBAClO₄ in PC.

Table S1. SEM EDX and TGA values for MnO₂ content (wt%) in nanocomposites.

SEM EDX	TGA
2	4.1
8.4	9.9
16	16
21	24
30	35

Table S2. Gravimetric capacitance values at various scan rates for mesoporous carbon and MnO₂/C nanocomposites in 1 M Na₂SO₄.

MnO ₂ Content (wt%)	Gravimetric Capacitance, total mass (F/g)				Gravimetric Capacitance, MnO ₂ mass (F/gMnO ₂)			
	2 mV/s	10 mV/s	50 mV/s	100 mV/s	2 mV/s	10 mV/s	50 mV/s	100 mV/s
0	28	25	21	19				
2	38	33	27	25	563	405	361	299
8.4	68	50	39	33	507	319	238	188
16	75	55	45	39	327	215	177	148
21	77	64	54	45	266	214	181	148
30	79	73	63	54	199	185	164	137

Table S3. Gravimetric capacitance values for mesoporous carbon and MnO₂/C nanocomposites for various compositions based on total mass at 2 mV/s in 0.5 M TBAClO₄ in PC.

MnO ₂ content (wt%)	Gravimetric capacitance (F/g)
0	26
8.4	26
16	25
30	26