

Electronic Supplementary Information (ESI)

Feeling the Power: Robust Supercapacitor from Nanostructured Conductive Polymer Fostered with Mn⁺² and Carbon Dots

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Table ESI 1. The composition of the composites and the synthesis efficiency of the final product as yield (%).

Sample Codes	Aniline [mg]	Mn/aniline mol ratio	KMnO ₄ [mg]	N-Cdots [mg]	Yield (%)
PANI	1160	0	0	0	21.9
(1)Mn:PANI	1160	1	14.17	40	22.5
(1)Mn:PANI:N-CDot	1160	1	14.17	40	22.8
(5)Mn:PANI:N-CDot	1160	5	71.00	40	24.5
(10)Mn:PANI:N-CDot	1160	10	142.0	40	25.7
(15)Mn:PANI:N-CDot	1160	15	213.0	40	26.1

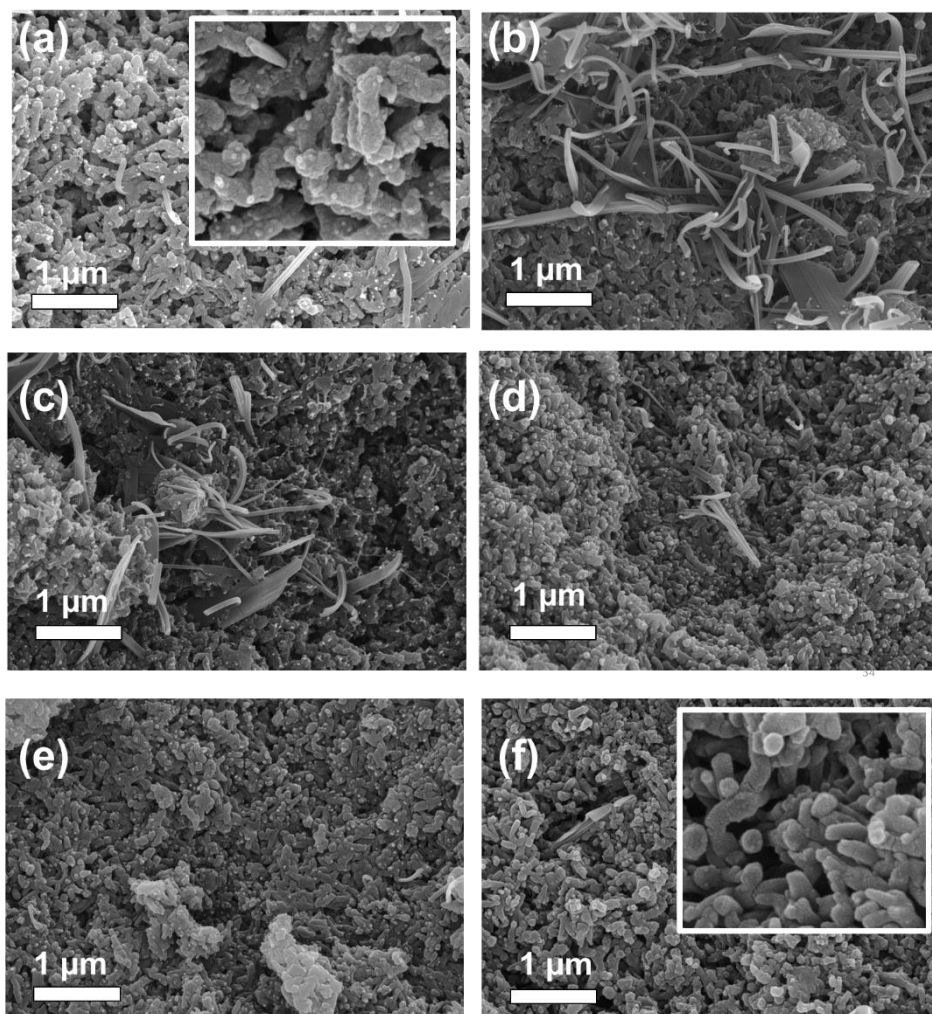


Figure ESI 1. FE-SEM images of pristine PANI, (1)Mn:PANI and Mn:PANI:N-CDot prepared at varying molar percentage of Mn:Aniline (1-15 %).

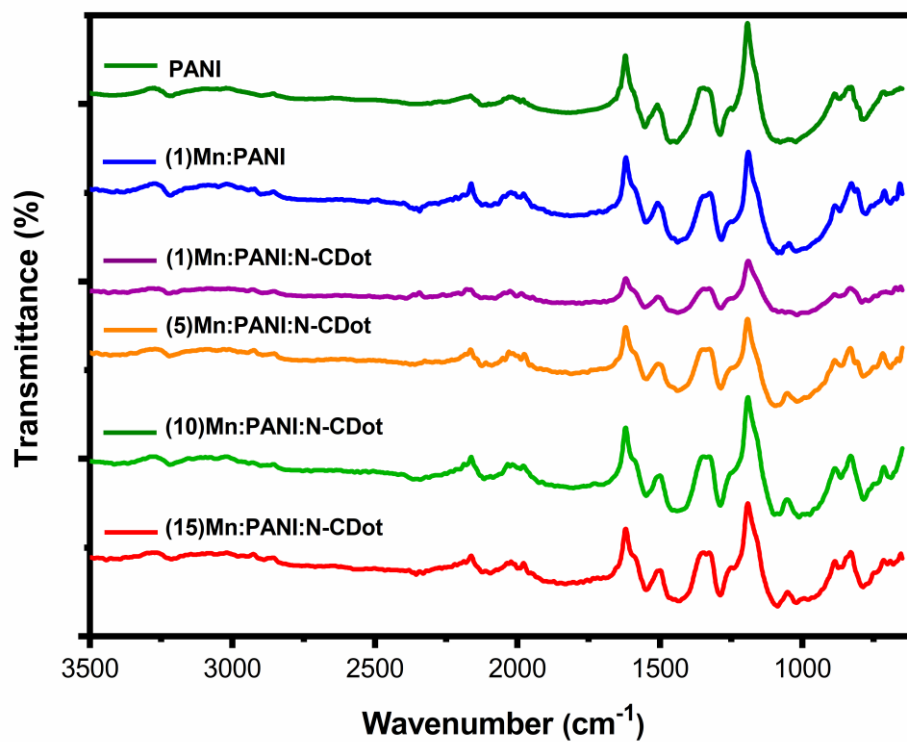


Figure ESI 2. FTIR spectrum of pristine PANI, (1)Mn:PANI and Mn:PANI:N-CDot prepared at varying molar percentage of Mn:Aniline (1-15 %).

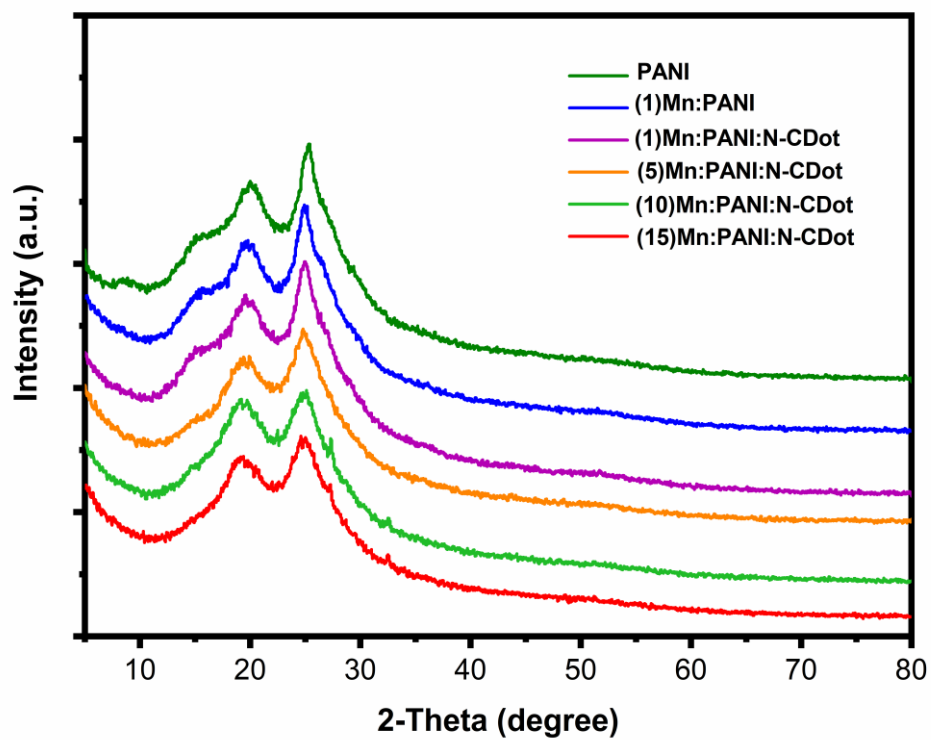


Figure ESI 3. XRD pattern of pristine PANI, (1)Mn:PANI and Mn:PANI:N-CDot prepared at varying molar percentage of Mn:Aniline (1-15 %).