Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A.

Supporting Information

One-Pot Synthesis of Highly Activated Carbons from Melamine and Terephthalaldehyde as Electrodes for High Energy Aqueous Supercapacitors

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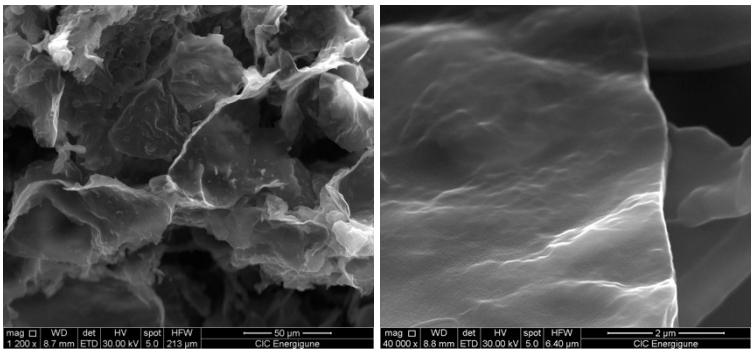

Figure S1. SEM images of MT carbon.

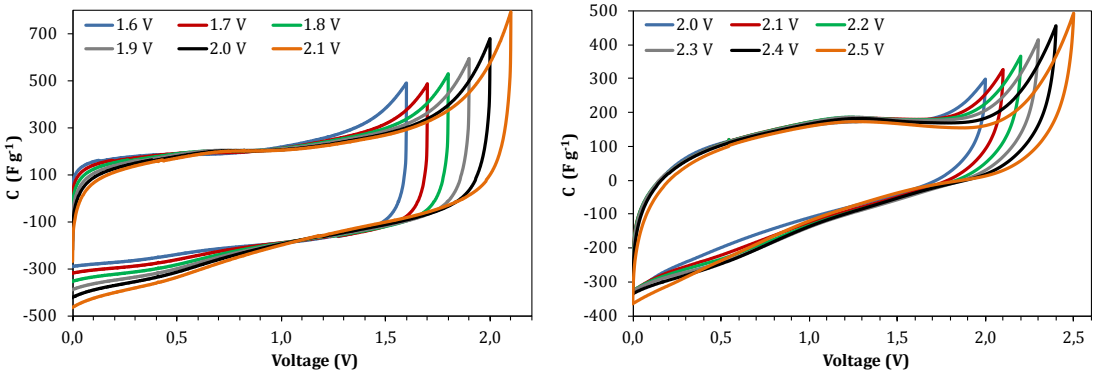

Figure S2. CV recorded for sample MTK at 5 mV s^{-1} using Li_2SO_4 (A) and LTFSI (B) as aqueous electrolytes.

Table S1. Energy density and efficiency calculated at 0.5 and 25 A g^{-1} for the MTK and MTKN samples in the three different electrolytes.

Sample	Electrolyte	0.5 A g^{-1}			25 A g^{-1}		
		E_c (Wh kg^{-1})	E_d (Wh kg^{-1})	Energy Efficiency (%)	E_c (Wh kg^{-1})	E_d (Wh kg^{-1})	Energy Efficiency (%)
MTK	KOH	15.5	11.2	72	10.8	9.2	86
	Li_2SO_4	21.6	15.0	69	14.2	11.1	78
	LiTFSI	118.1	20.7	18	13.1	5.2	40
MTKN	KOH	16.0	12.4	78	11.6	9.6	83
	Li_2SO_4	27.4	15.5	56	15.7	11.2	71
	LiTFSI	61.5	13.7	22	0.66	0.1	14

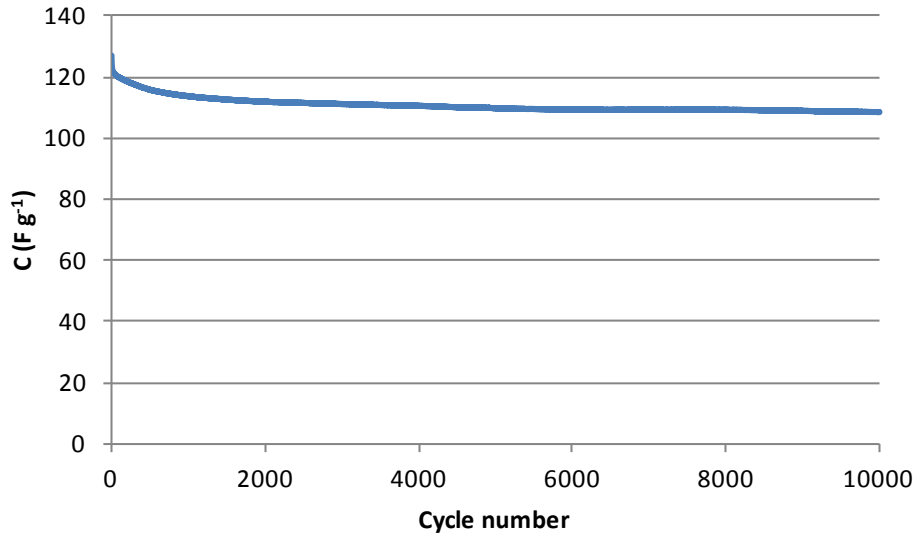

Figure S3. Cycling performance of MTK sample in 1M Li_2SO_4 at 10 A g^{-1}.