

Fig. S1. Variation of I (amp) with time during diluted sea water desalination containing TDS (a) 2000 and (b) 5000 mg/L respectively with CEM-3 at 1.5-2 volt/cell pair applied potential.

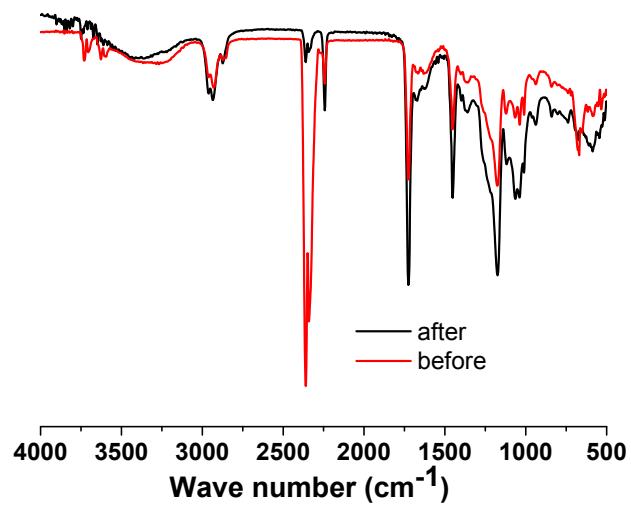


Figure S2. ATR-IR spectrum of CEM-3 before and after exposure with Fentons reagent at 70 °C for 9 h.

Table S1. Values of W, CE(%) and J during diluted sea water desalination containing TDS 2000 mg/L using CEM-3 at 2 volt/cell pair applied potential and at different pH

pH	W (KW.h/Kg)	CE (%)	J (Kg/m ² s)
5	1.25	73.2	0.000149
8	1.06	86.0	0.000164
10	1.16	79.2	0.000157
12	1.24	74.2	0.000122