Electronic Supplementary Material (ESI) for New Journal of Chemistry. This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2017



Fig.S1 DRS-UV visible spectra of SBA-15 catalysts



**Fig.S2** Cyclic voltammograms at different scan rates of (a) NCNT 800, (b) NCNT 900 and (c) NCNT 1000



**Fig.S3** Charge-discharge profiles at different current densities of (a) NCNT 800, (b) NCNT 900 and (c) NCNT 1000.