

SUPPORTING INFORMATION

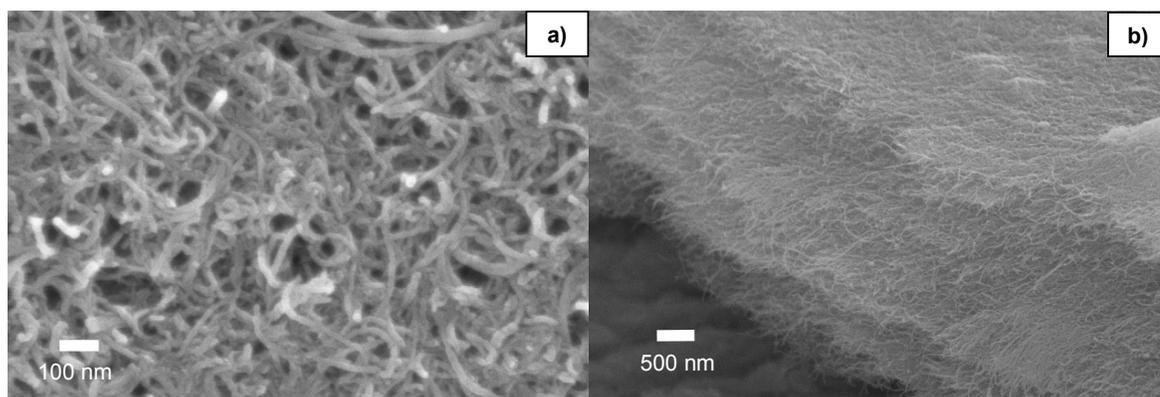


Figure S1. FESEM image of ozone-functionalized MWCNTs electrophoretically deposited onto a graphite electrode, prior to iron electrodeposition showing (a) the top view and (b) cross-sectional image of the film

deposition time (min)	Sample	% elemental concentrations		
		C	O	Fe ⁰
30	CNTs	6.4	15.3	78.4
30	Graphite	6.5	12.0	81.4

Table S1. Elemental compositions measured using EDS for Fe electrodeposited onto ozone-treated MWCNTs and graphite after 30 minutes treatment. Measurements were taken at the center of the film.

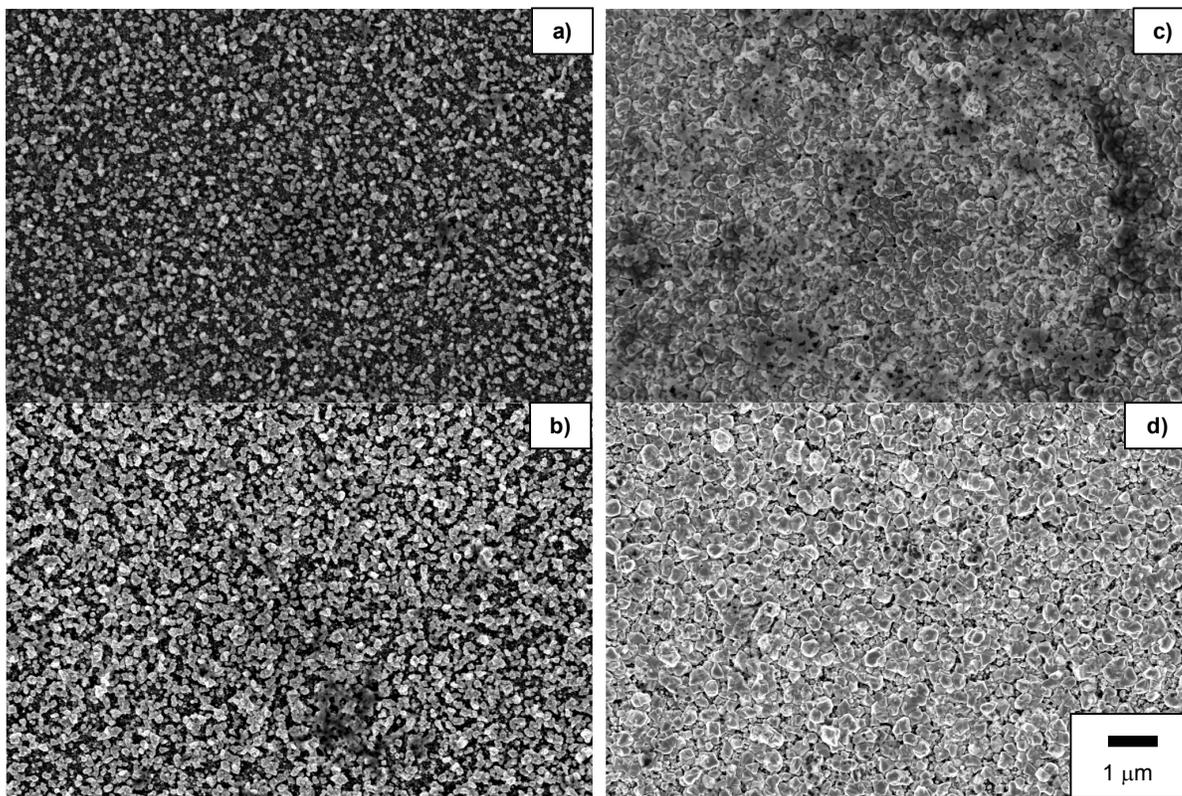


Figure S2. Low resolution FESEM images of Fe electrodeposited onto ozone treated MWCNTS as a function of deposition time (a) 1 min, (b) 5 min, (c) 15 min and (d) 30 min (Scale bar = 1 μm)

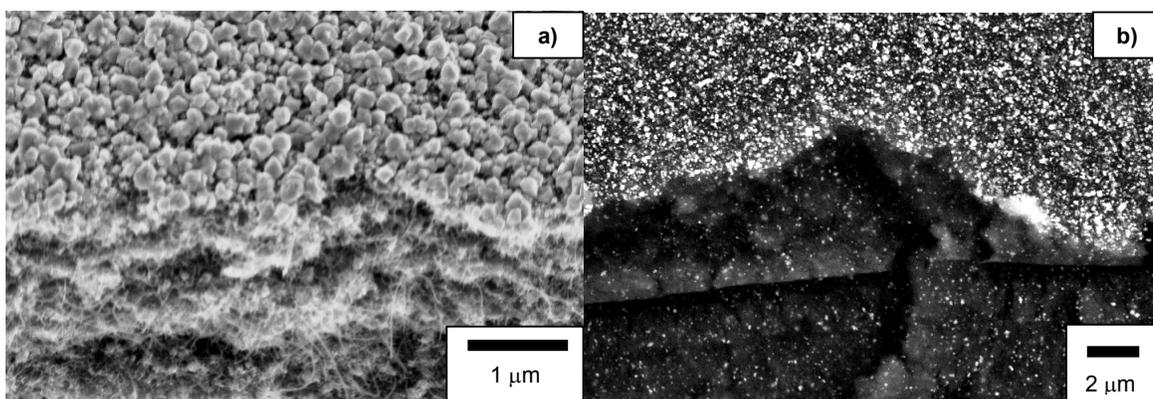


Figure S3. Tapered fracture through a CNT-Fe film after 15 minutes of plating showing (a) the SEM image and (b) the backscattered electron (BSE) image. The images show the outer film thickness is equivalent to the size of the individual iron particles (<200nm), whereas the BSE

image shows that iron particles are dispersed through the thickness of the CNT film at a lower density.

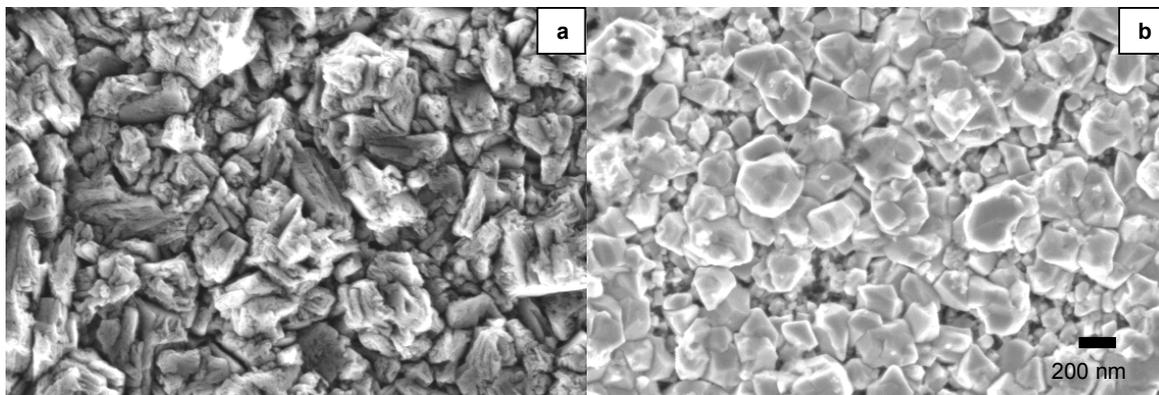


Figure S4. FESEM images of Fe electrodeposited onto (a) graphite and (b) ozone treated MWCNTs after 30 minutes treatment (Scale bar = 200 nm)