

Supporting information

on

Nitrogen doping as a fundamental way to enhance EMI shielding behavior of cobalt particles-embedded carbonaceous nanostructures

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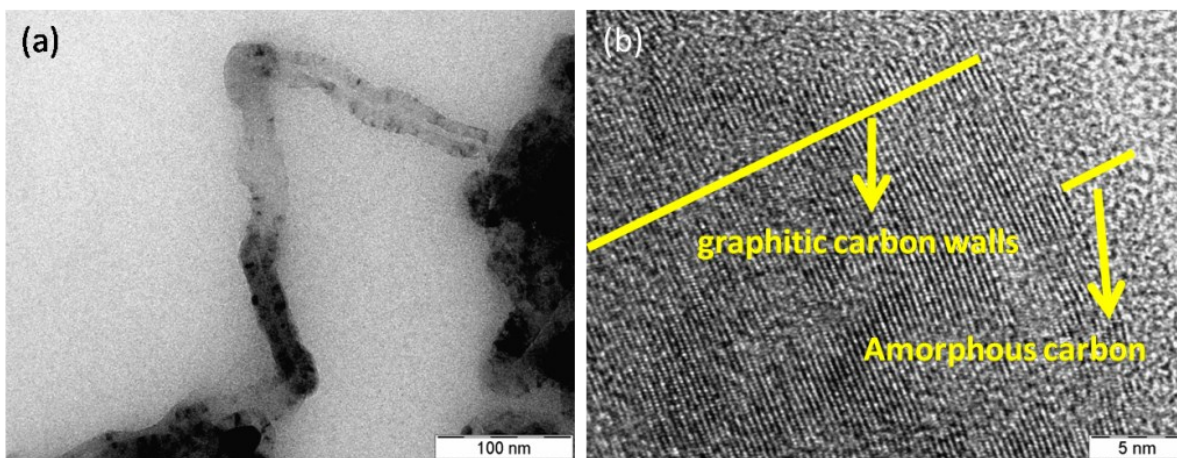


Figure S1. TEM image showing multiwalled nanotubes in the samples.

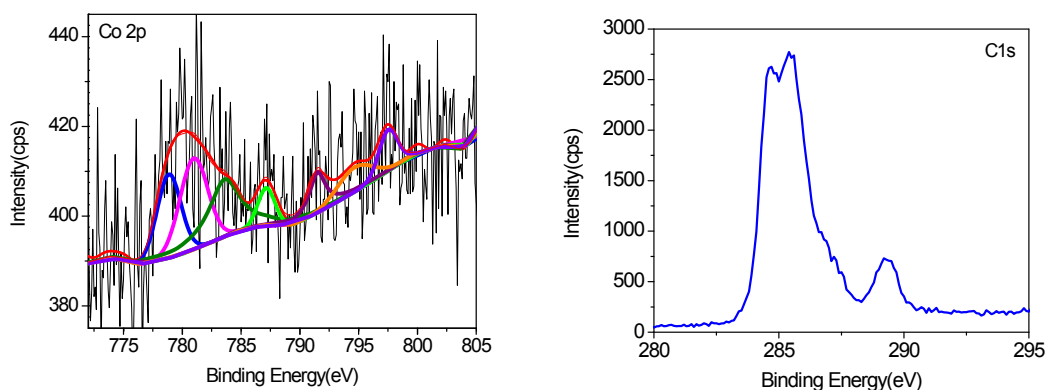


Figure S2. XPS of Co@CN sample : Co2p and C1s.

Table T1. The reported values of the shielding effectiveness of polymer based composite materials.

Composites details	SE	Frequency (GHz)	Thickness (mm)	Ref.
Graphene foam/5 wt% CNT/PDMS composite	70-80	8-12	2	(1)
60 wt% polyaniline and ethylene 1-octene copolymer composites	80-90	8-12.4	5.4	(2)
Kelvar fabrics and carbon fibre reinforced epoxy	80	0.8-8	3.5	(3)
5 wt.% Fe ₃ O ₄ in 10 wt.% PAN/DMF	65-68	8.2-12.4	0.7	(4)
Silicone rubber/Ni coated carbon fibre (80phr)	80	0.04-1.2	2	(5)
5.7 % multi-walled carbon nanotubes/polydimethylsiloxane composites (MWNT/PDMS)	70-80	8.2-12.4	2	(6)
silicone rubber filled with 240 phr Ag-coated cenosphere particles	60-100	0.3-1.5	2.7	(7)
PVDF-70 vol% graphite	90	8.2-18	2	(8)
Polyaniline nanofiber graphite composite	80	8.2-18	1	(9)

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