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

Supporting Information

Morphology-dominant microwave absorption enhancement found from nano-flower CoO self-assembly nanostructures

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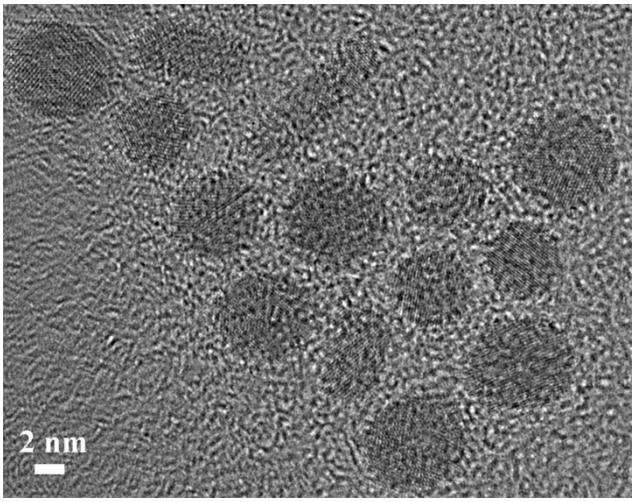

Fig. S1 TEM image of sphere CoO nanocrystals.

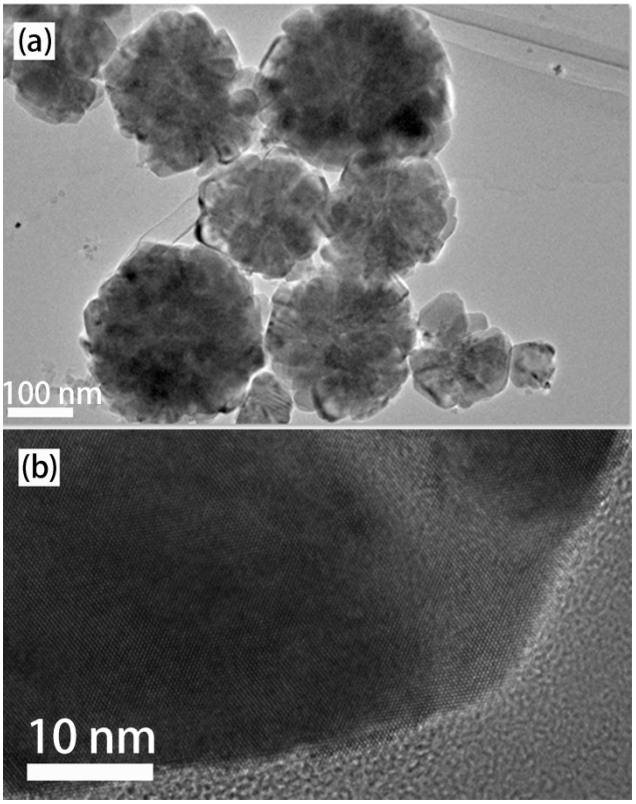

Fig. S2 TEM images of hexagonal CoO nanocrystals: (a) TEM image, (b) HRTEM image.

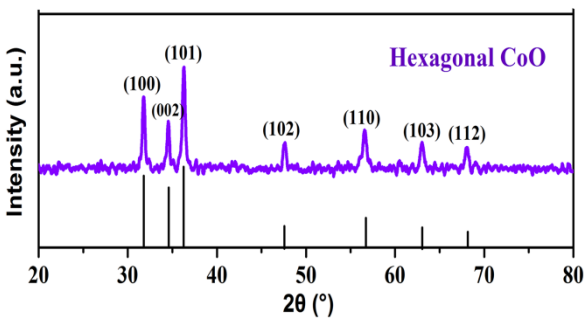

Fig. S3 XRD pattern of the as-prepared hexagonal CoO NCs.

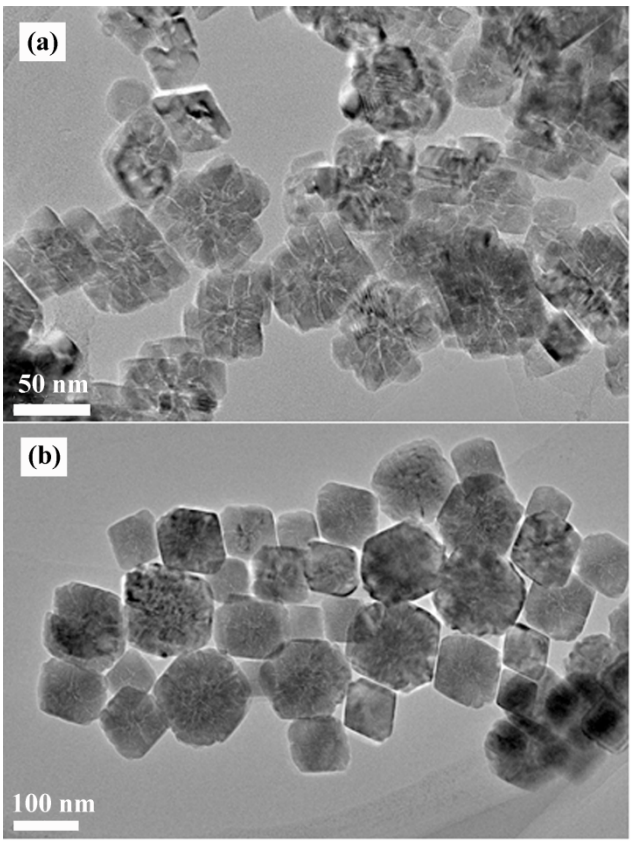

Fig. S4 TEM images of CoO nanocrystals prepared with different $Co(acac)_3$ precursor: (a) 0.2 mmol, (b) 1.0 mmol.

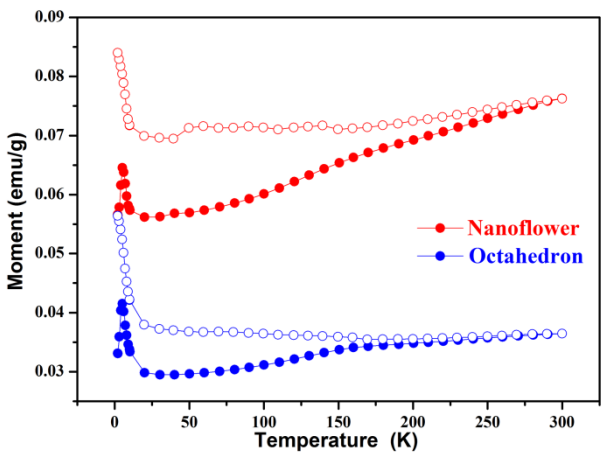

Fig. S5 ZFC (filled symbols) and FC (open symbols) magnetization curves for 3D self-assembly nano-flower (red line) and octahedron (blue line) of cubic CoO NCs.

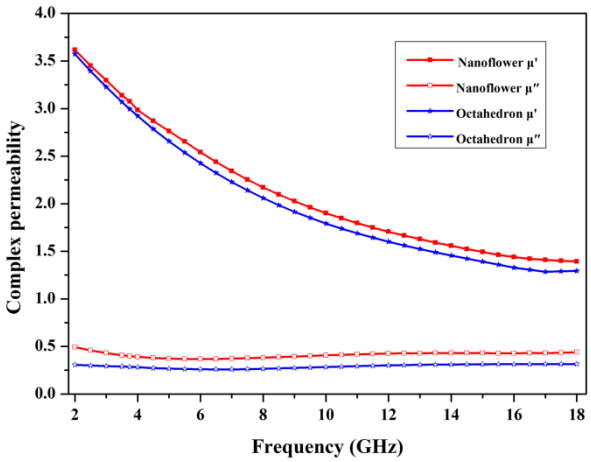

Fig. S6 Frenquency dependence of real and imaginary parts of complex permeability of the nano-flower and nano-octahedron CoO NCs/EP composites.

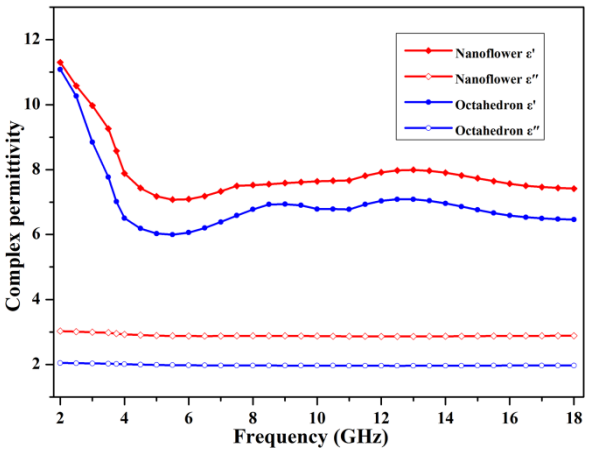

Fig. S7 Frenquency dependence of real and imaginary parts of complex permittivity of the nano-flower and nano-octahedron CoO NCs/EP composites.