Supporting Information

High-performance Microwave Absorption of Flexible Nanocomposites Based on Flower-like Co Superstructures and Polyvinylidene Fluoride

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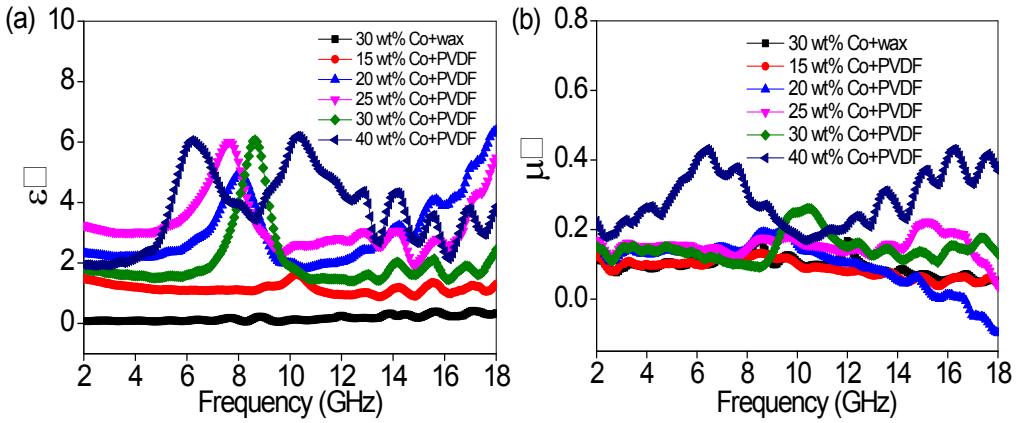

Fig.S1. Frequency dependence on imaginary parts of the complex (a) permittivity and (b) permeability of samples.

Table S1 Electromagnetic absorption properties of some reported samples

Sample	Matrix	Weight Content (%)	Thickness (mm)	The Minimum RL Value (dB)	The Effective Frequency Bandwidth (RL≦ -10 dB)
Ni–Fe–CNFs[1]	epoxy	40	2.37	-20.0	3.7 GHz
Co nanoporous structure[2]	epoxy	65	1.20	-38.7	4.0 GHz
Ni–Co nanoferrites[3]	----	----	2.50	-36.2	3.0 GHz
SiC/Co hybrid nanowires[4]	wax	50	3.0	-25.0	6.6 GHz
GN/PEDOT/Fe_3O_4 nanocomposites[5]	wax	50	2.9	-56.5	3.0 GHz
Ni chains[6]	wax	70	0.8	-19.9	4.3 GHz
Porous carbon/Co nanocomposites[7]	wax	30	5.0	-40.0	----
Ni/SnO_2 composites[8]	wax	70	7.0	-18.6	1.5 GHz
Ni/ZnS composites[9]	wax	70	2.7	-25.78	4.72 GHz
Fe_3O_4–polyaniline nanoparticles[10]	wax	40	1.7	-35.1	----

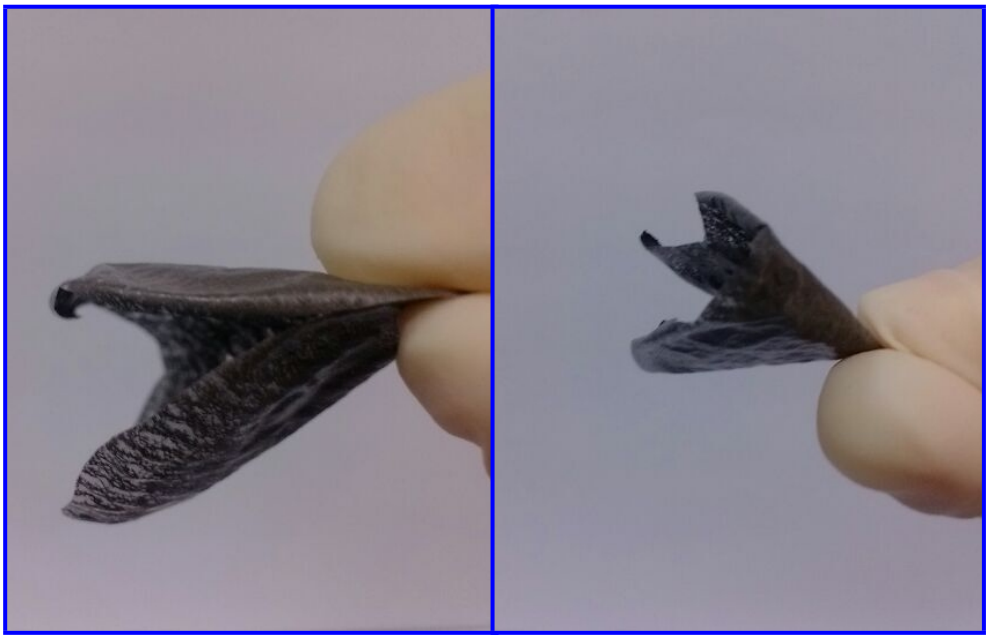

Fig.S2. The photograph of the Co/PVDF membrane

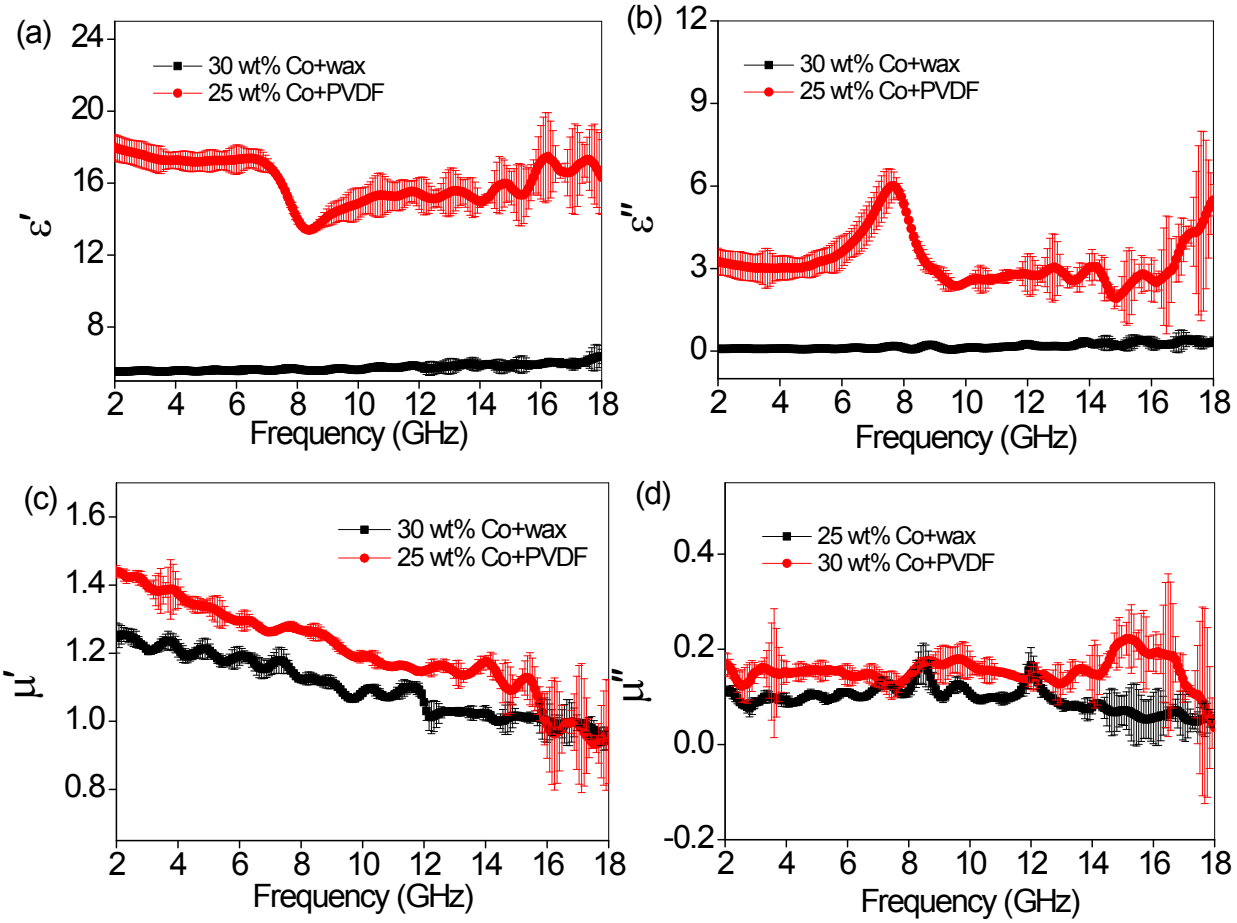

Fig.S3 Frequency dependence on (a) real part and (b) imaginary part of the complex permittivity; (c) real part and (d) imaginary part of the complex permeability with error bars.

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