

Supporting Information

Flexible carbon fibres with magnetic ZIF-67 as core layer and in-situ grown NiMn-LDH nanosheets as shell layer for microwaves absorption

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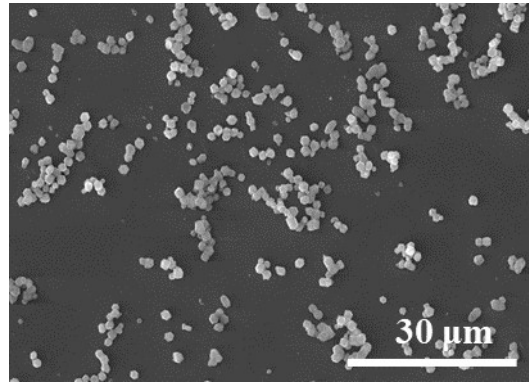


Figure S1. SEM images of ZIF-67

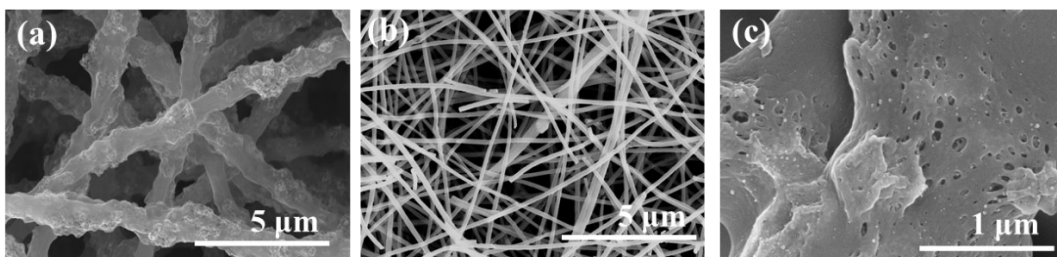


Figure 2. SEM morphologies of (a) Co/CFs, (b) CFs, (C) ZIF-67 creates a pore structure on the surface of CFs

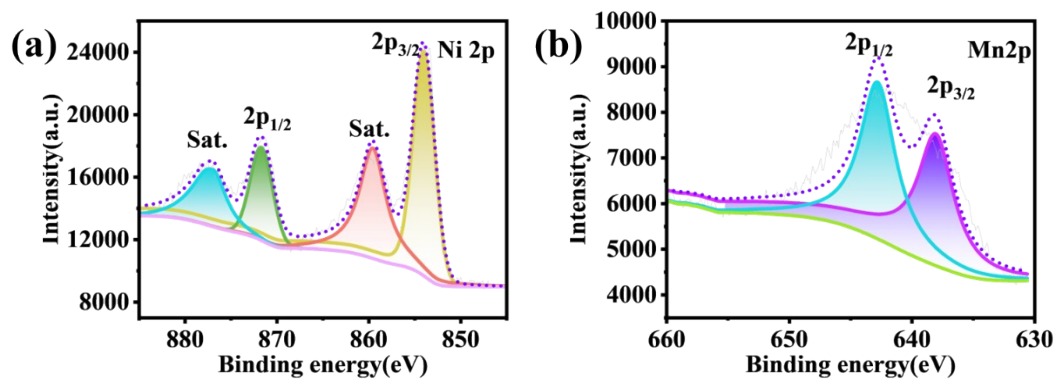


Figure 3. XPS spectra of CFs@NiMn-LDH of (a)Ni 2p,and (b) Mn 2p

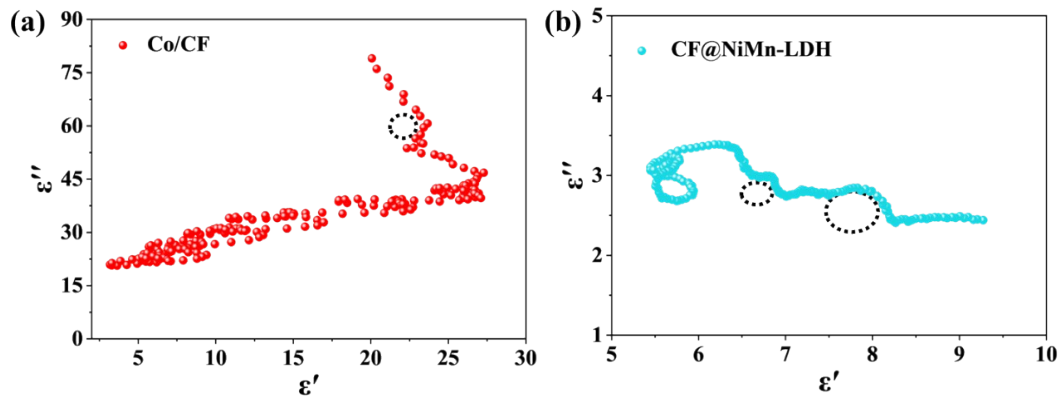


Figure 4. typical Cole-Cole plots of (a) Co/CFs and (b) CFs@NiMn-LDH

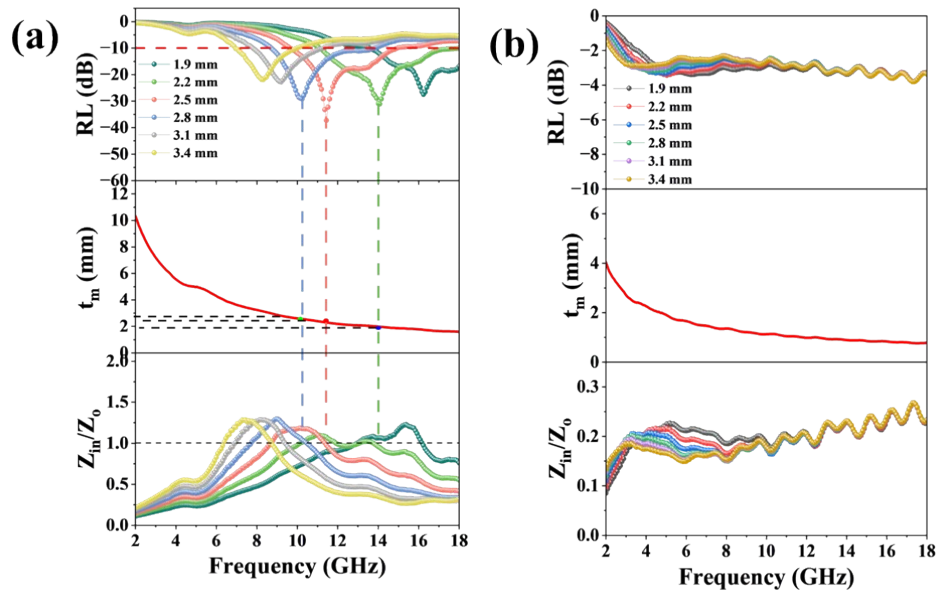


Figure 5. RL values, calculated matching thicknesses and impedance matching of (a) CFs@NiMn-LDH, (b) Co/CFs.

Table S1. Comparison of the reported EMW absorption performance of CFs-based absorbents and prepared Co/CFs@NiMn-LDH composites

Filler	RL _{max} Value (dB)	Effective Absorption Bandwidth (GHz)	Thickness (mm)	Ref.
Mn–Zn ferrite/CFs	-28.8	1.46	5.8	[1]
SiC/CFs	-36.5	5.5	1.9	[2]
CoNi-LDHs/SCFss	-42.9	3.38	2.2	[3]
Co-LDH/ZIF-67/SCFs	-24.1	6.5	2.1	[4]
NiFe@CNF	-49.5	4.72	1.4	[5]
TiN/C NFs⁶	-41.84.	3.9 (2.5 mm)	1.9	[6]
NiFe@NCFss	-39.7	4.1 (1.47 mm)	2.0	[7]
Co/CFs@NiMn-LDH	-53.0	4.0 (2.0 mm)	2.8	This work

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