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

Supporting Information

Graphene Oxide-Mediated High-Porosity Ni/C Aerogels through Topological MOFs Deformation for Enhanced Electromagnetic Absorption and Thermal Management

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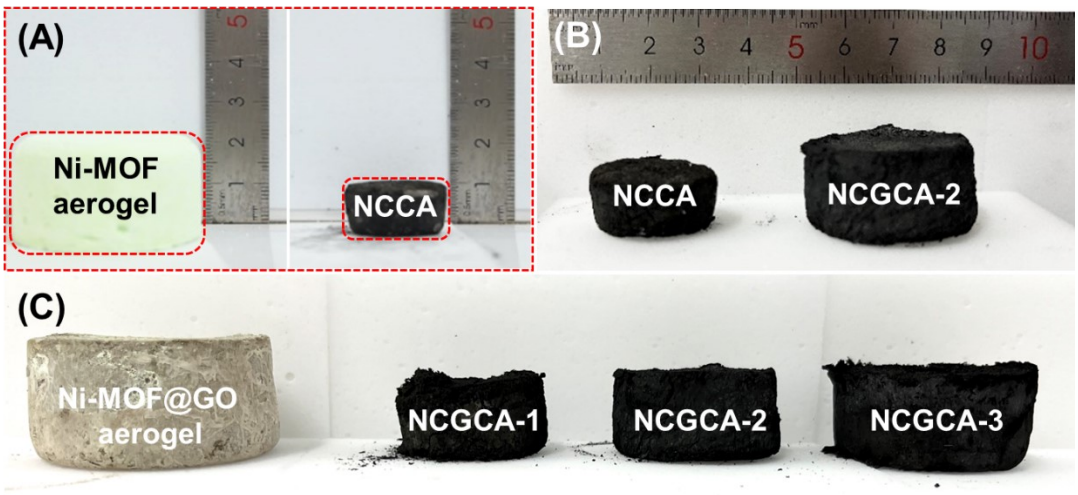

Fig. S1† Digital photos of Ni-MOF aerogel, NCCA, Ni-MOF@GO aerogel, and NCGCAs.

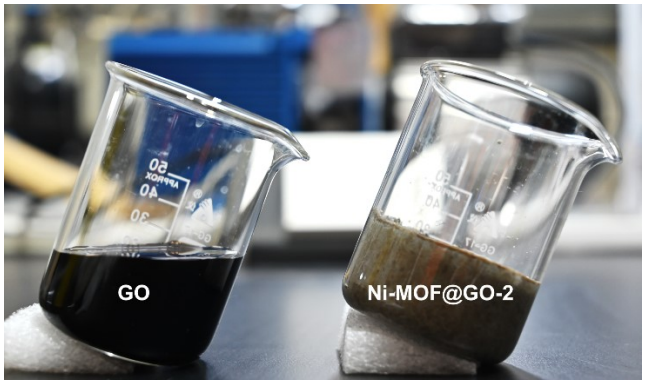

Fig. S2† Digital photos of GO and Ni-MOF@GO-2.

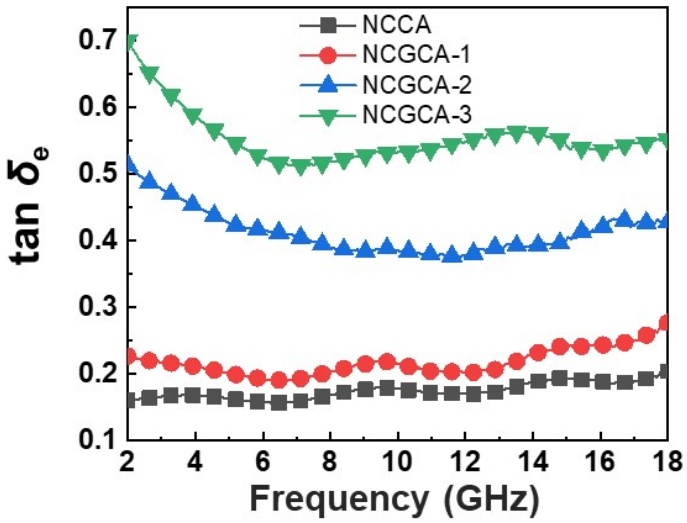

Fig. S3† tanδ_e values of NCCA and NCGCAs.

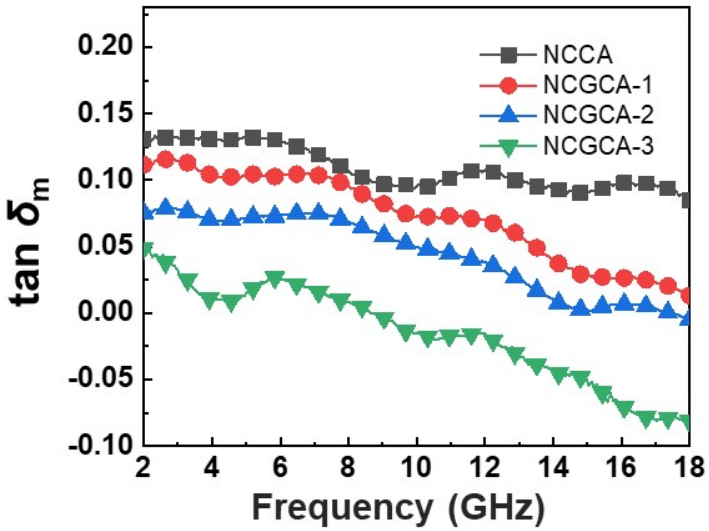

Fig. S4† tanδ_m values of NCCA and NCGCAs.

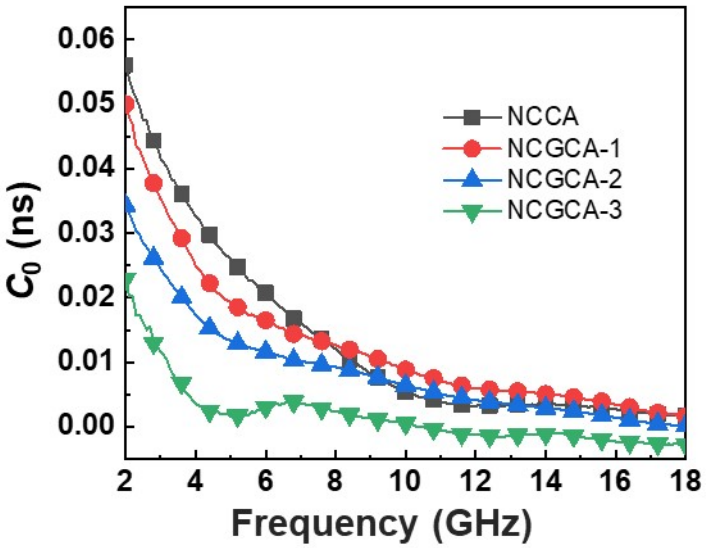

Fig. S5† C_0 values of NCCA and NCGCAs.

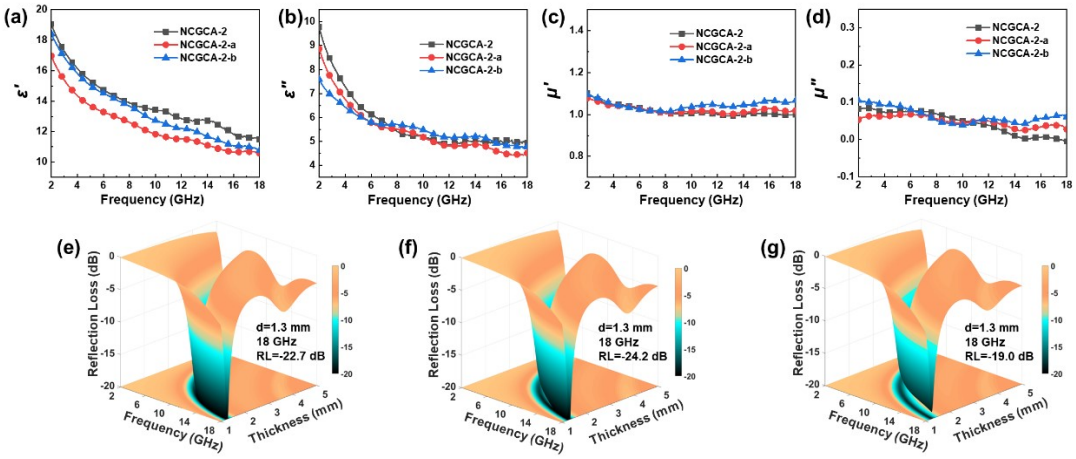

Fig. S6† ε_r' (a), ε_r'' (b), μ_r' (c), μ_r'' (d) of NCGCA-2, NCGCA-2-a and NCGCA-2-b; 3D RL maps of NCGCA-2 (e), NCGCA-2-a (f) and NCGCA-2-b (g).

Table S1† EAB and RL properties of some composites aerogels in previous references that possess similar chemical composition with NCGCA-2.

Sample	EAB (GHz)	Minimum RL (dB)	Thickness (mm)	References
Ni/C aerogel	2.4	-41.6	3.5	50
Ni/C aerogel	3.6	-23.0	2.0	51
PPy/Ni/rGO aerogel	4.3	-18.2	1.5	52
Ni/C aerogel	4.5	-45.0	2.0	53
Ni/rGO aerogel	4.6	-20.2	3.0	54
C/Ni/rGO aerogel	4.8	-16.5	1.8	55
C/Ni/PPy aerogel	4.8	-21.6	2.0	56
NCCA	**2.2**	**-19.2**	**5.0**	**This work**
NCGCA-2	**5.2**	**-22.7**	**1.5**	**This work**