

Supporting Information

Hierarchical Structure SiC@CoNi-Layered Double Hydroxide Fibers for High Performance Electromagnetic Wave Absorption

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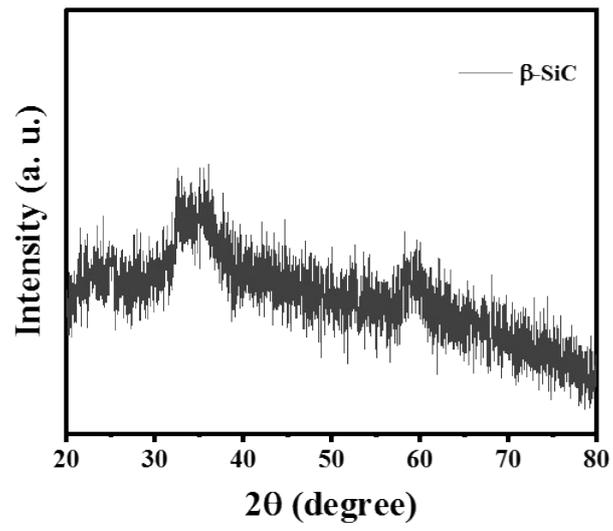


Fig. S1. XRD pattern of SiC.

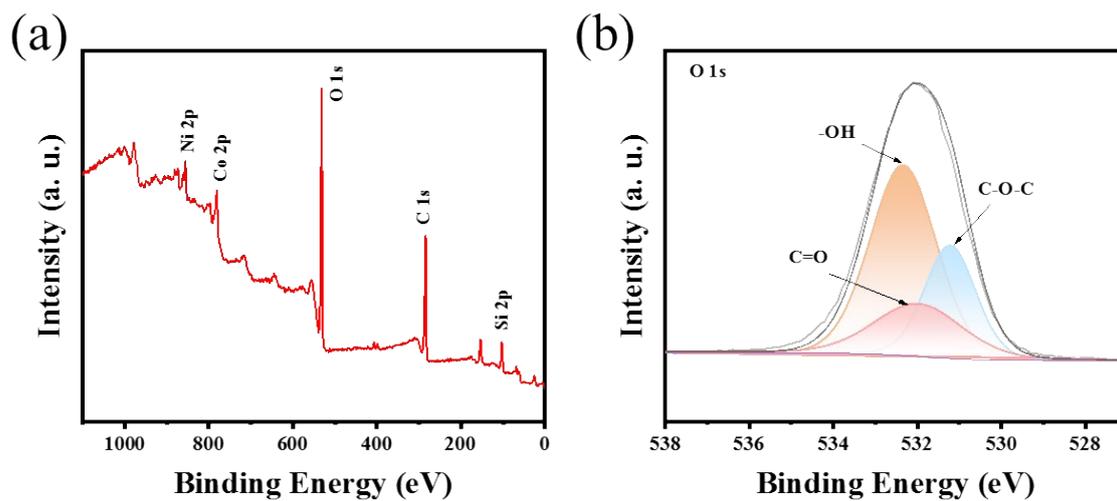


Fig. S2. (a) XPS total spectrum, (b) O 2p high-resolution XPS spectrum of the SiC@CoNi-LDHs-2.

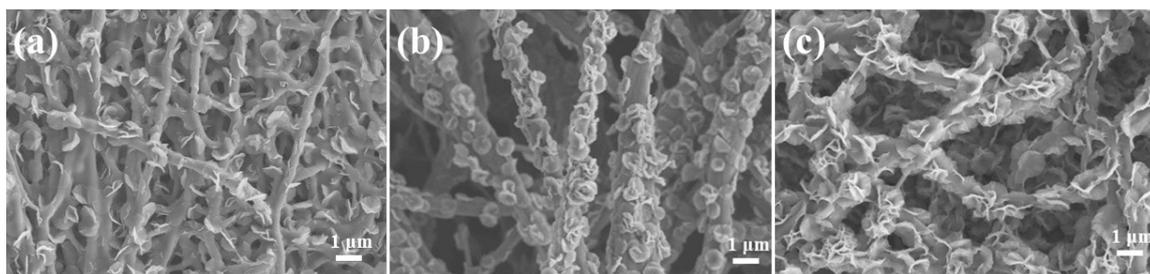


Fig. S3. SEM images of (a) SiC@CoNi-LDHs-1, (b) SiC@CoNi-LDHs-2, (c) SiC@CoNi-LDHs-3.

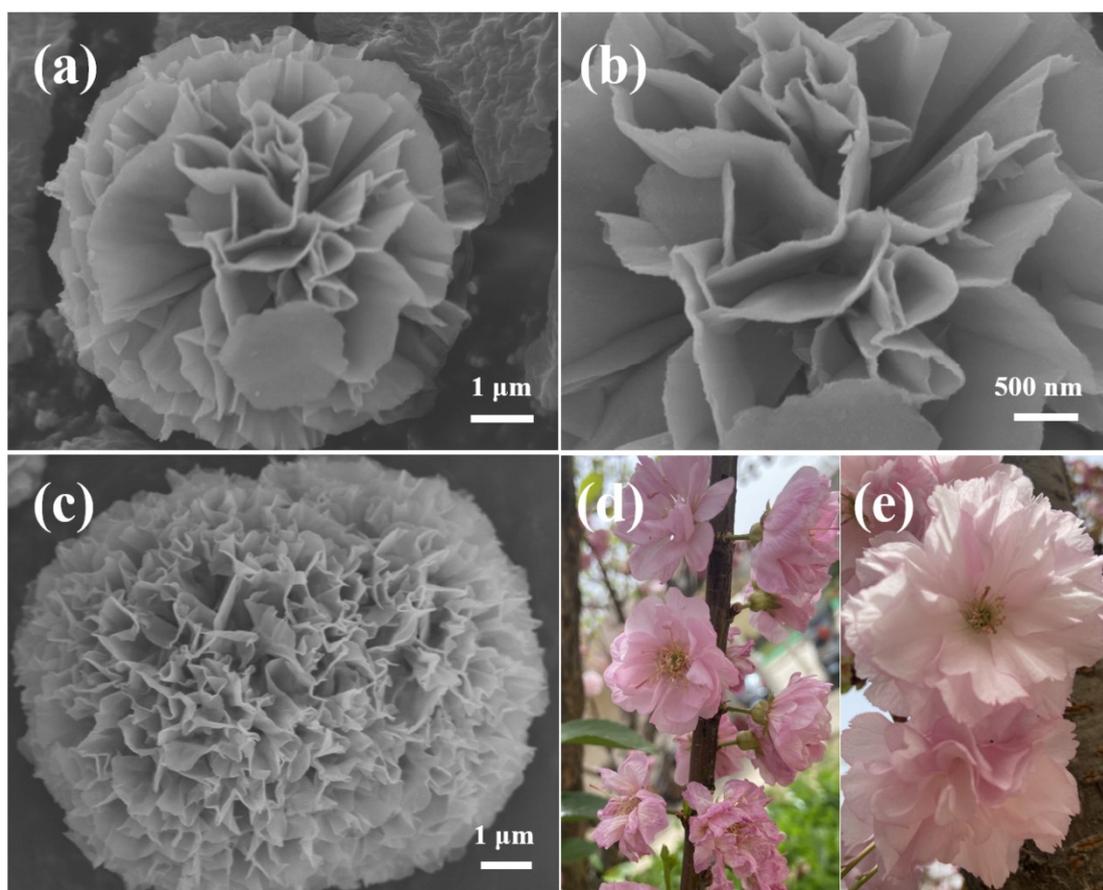


Fig. S4. SEM images of (a-c) CoNi-LDHs and (d, e) digital photos of flower petals.

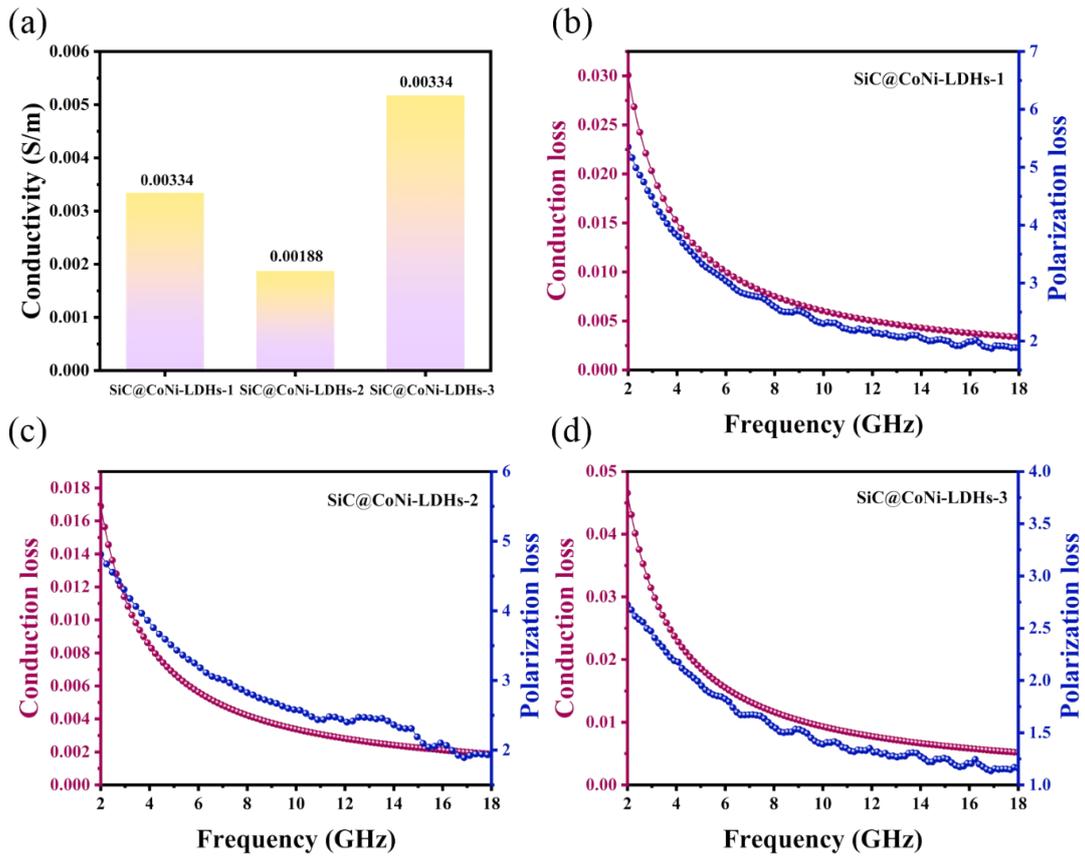


Fig. S5. (a) Conductivity and (b-d) plots of ϵ_c'' and ϵ_p'' of SiC@CoNi-LDHs-1 to SiC@CoNi-LDHs-3.

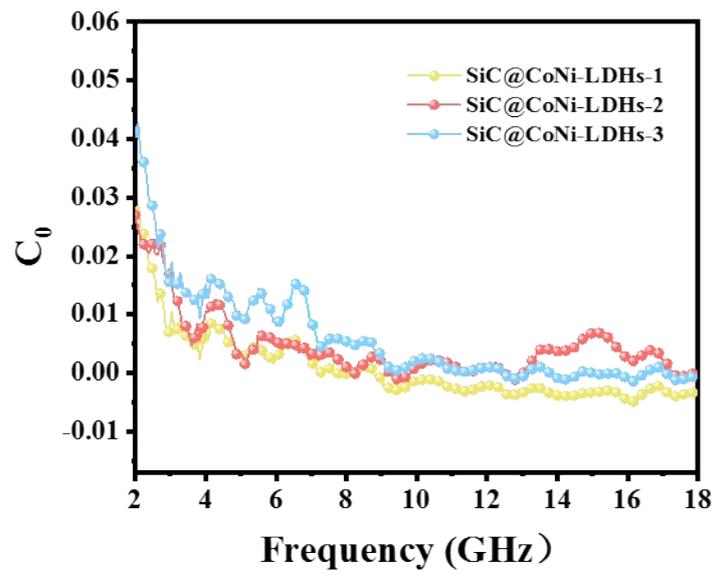


Fig. S6. C_0 curve of SiC@CoNi-LDHs-1 to SiC@CoNi-LDHs-3.

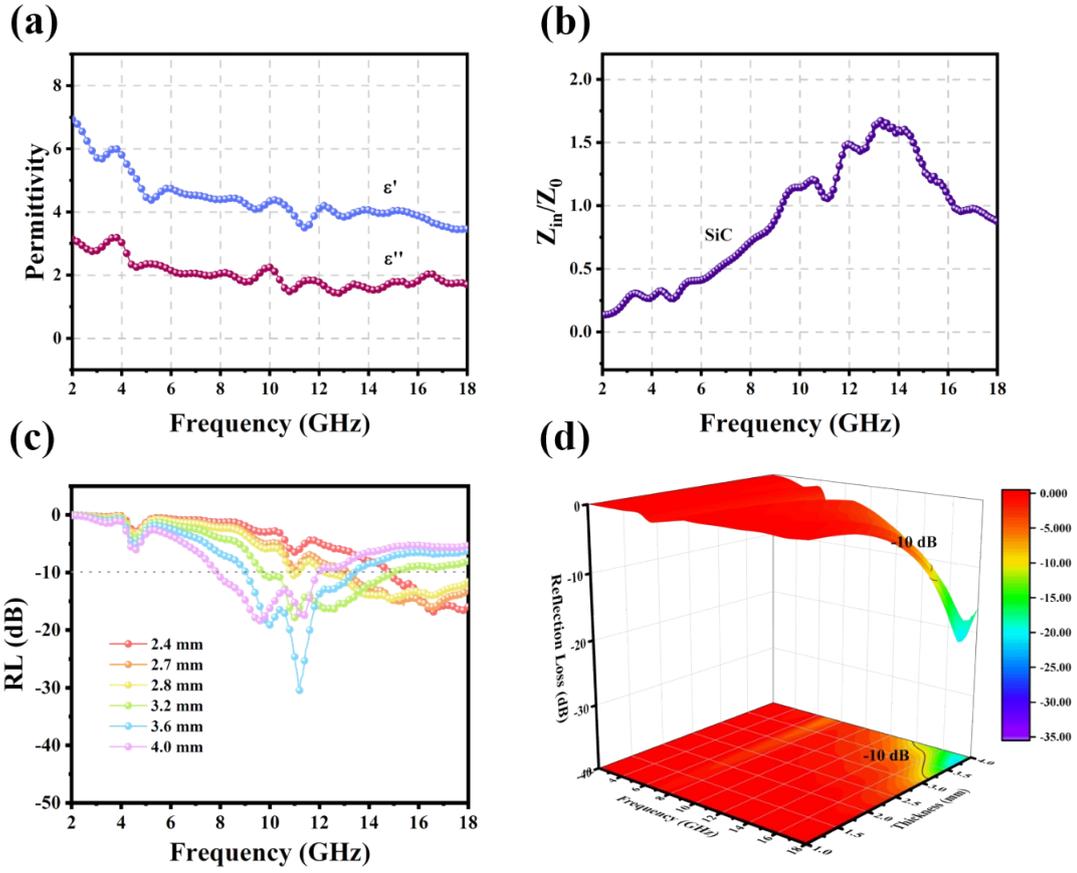


Fig. S7. (a) SiC fiber complex permittivity, (b) impedance matching at 2.7 mm, (c) 2D RL plot and (d) 3D RL plot.

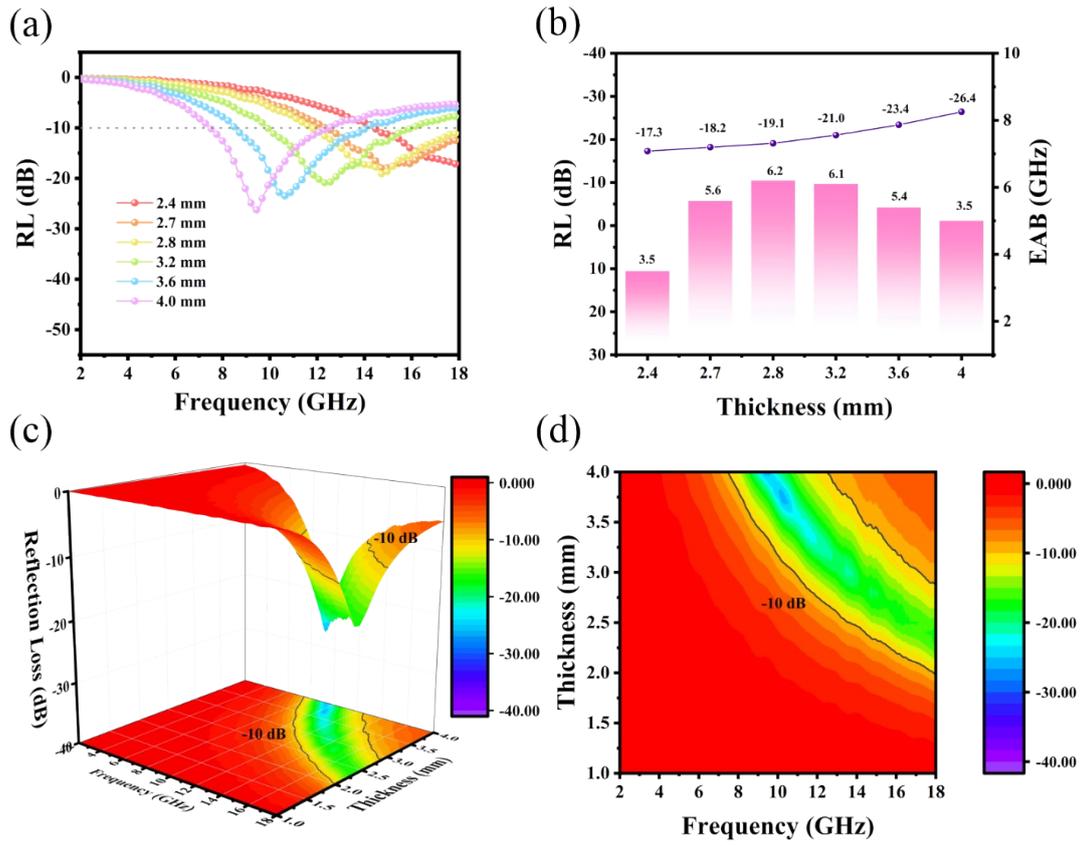


Fig. S8. (a) RL, (b) RL and EAB at different thicknesses, (c) 3D RL, (d) 2D RL contour diagram from non-hierarchical composites.

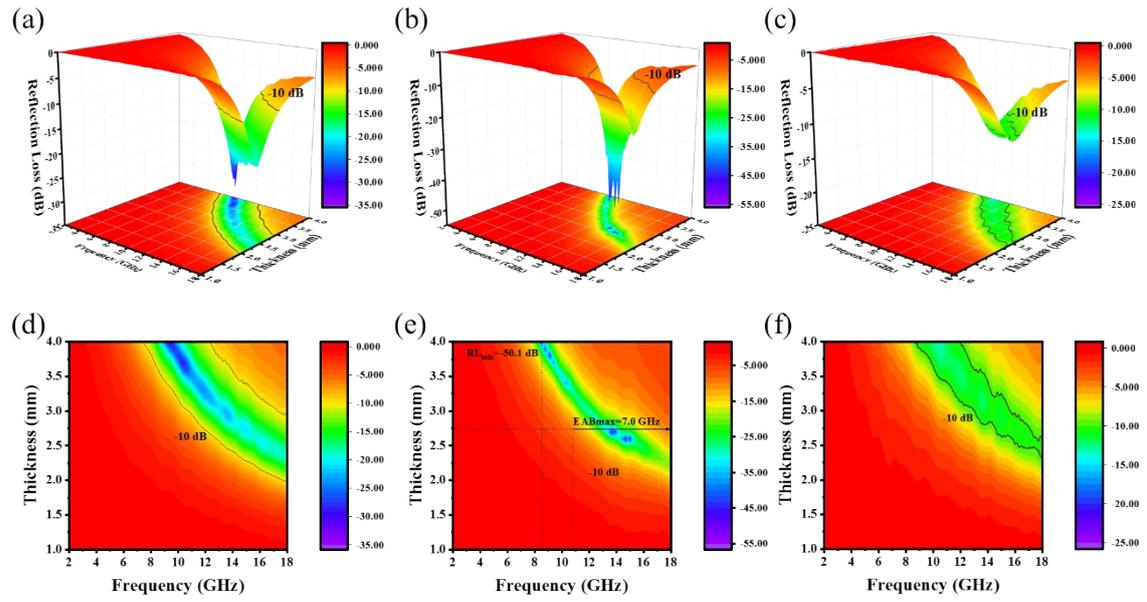


Fig. S9. (a-c) 3D RL diagram and (d-f) 2D RL contour diagram from SiC@CoNi-LDHs-1 to SiC@CoNi-LDHs-3.