

Hierarchical porous Ni@boehmite/nickel aluminum oxide flakes with enhanced microwave absorption ability

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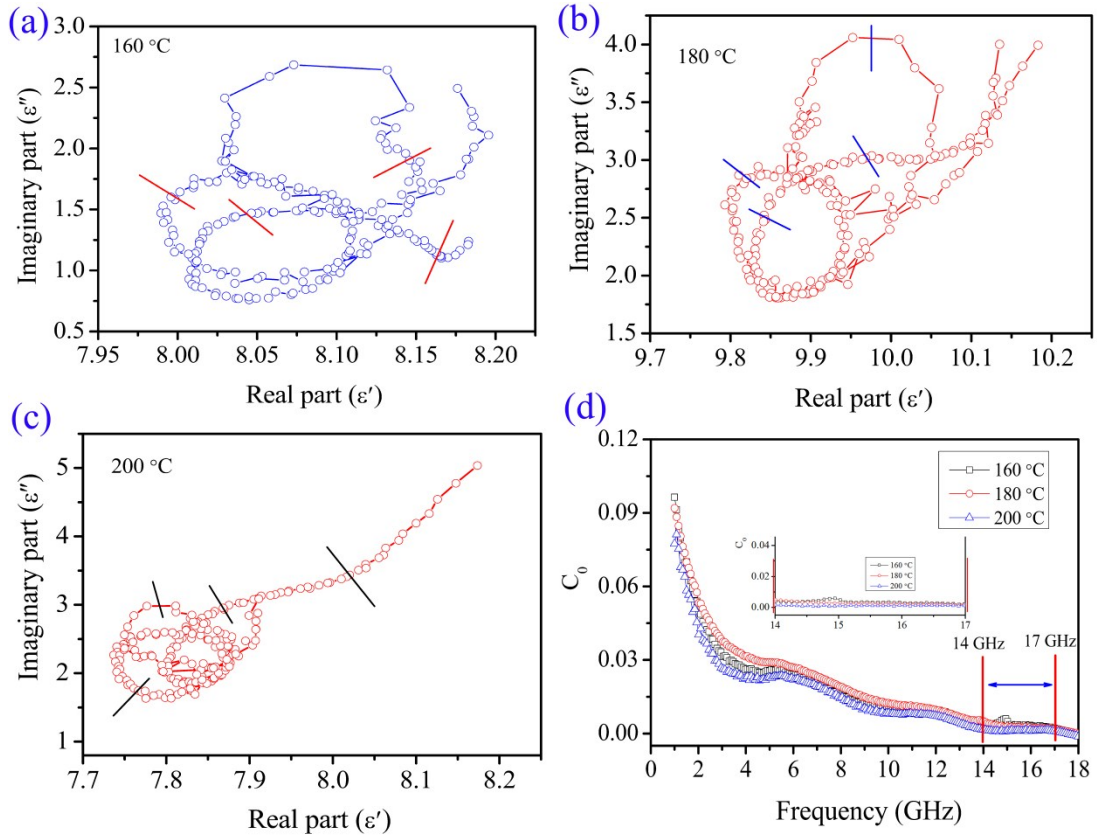


Fig. S1 (a-c) The relation between real part (ϵ') and imaginary part (ϵ''), and (d) Frequency dependence of C_0 ($C_0 = \mu''(\mu')^{-2} f^{-1}$) for three Al-Ni@Ni-160, Al-Ni@Ni-180 and Al-Ni@Ni-200 samples; Inset in Fig.S1d is the zoomed-up image of C_0 in the frequency of 14-17 GHz.

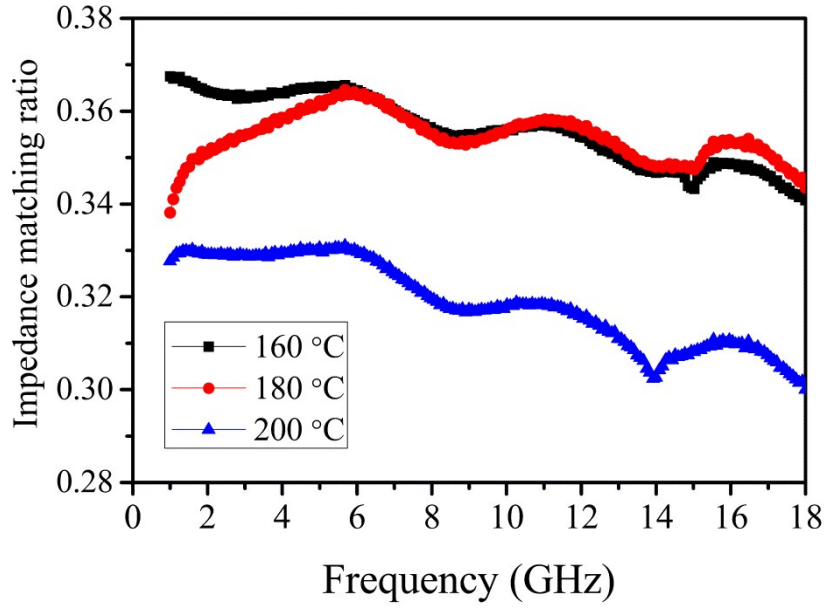


Fig.S2 Frequency dependence of impedance matching ratio ($Z_r = Z_{in}/Z_0$) of Al-Ni@Ni products prepared at different hydrothermal temperatures

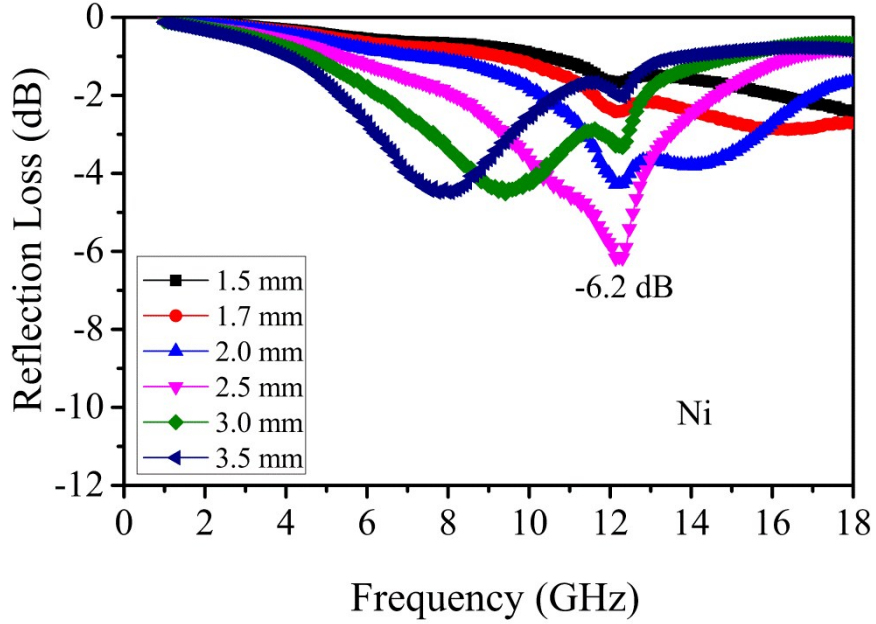


Fig.S3 Calculated reflection loss of bare Ni microspheres with different thicknesses