

**Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.  
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## **Supporting Information**

### **A Novel Strategy to Enhance Multiple Interface Effect by Amorphous Carbon Package Hydrogenated TiO<sub>2</sub> for Stable and Effective Microwave Absorption**

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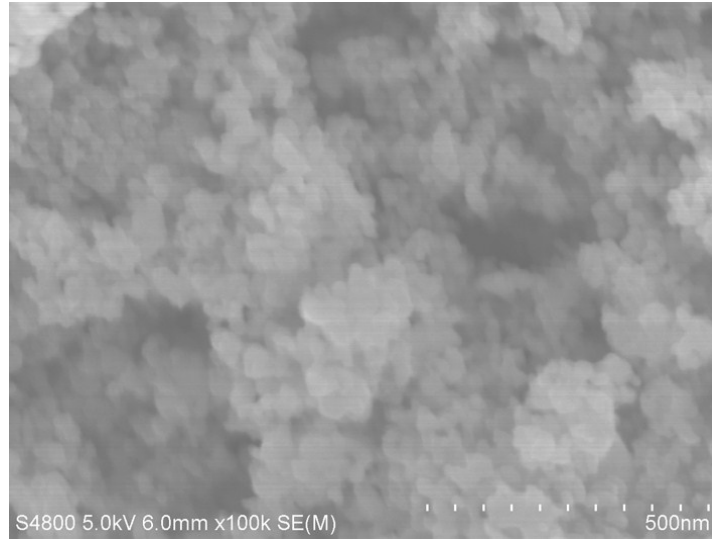
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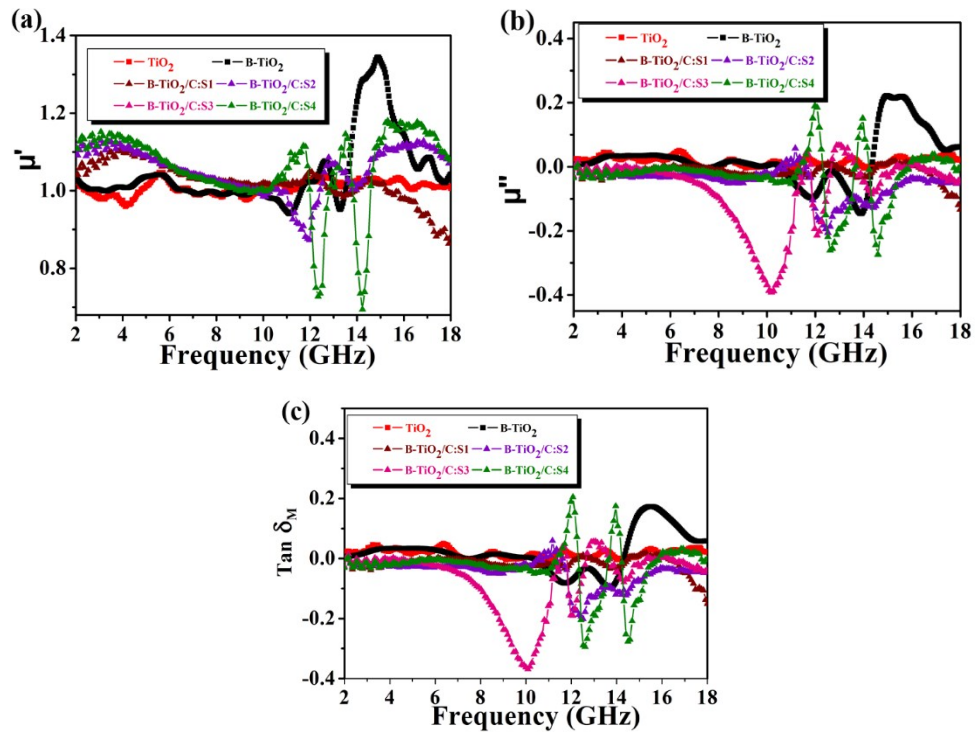
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**Fig. S1.** SEM images of black  $\text{TiO}_2$  nanoparticles



**Fig. S2.** Complex permeability of  $\text{TiO}_2$ , B- $\text{TiO}_2$  and B- $\text{TiO}_2/\text{C}$ : (a) real part, (b) imaginary part, and (c) tangents loss

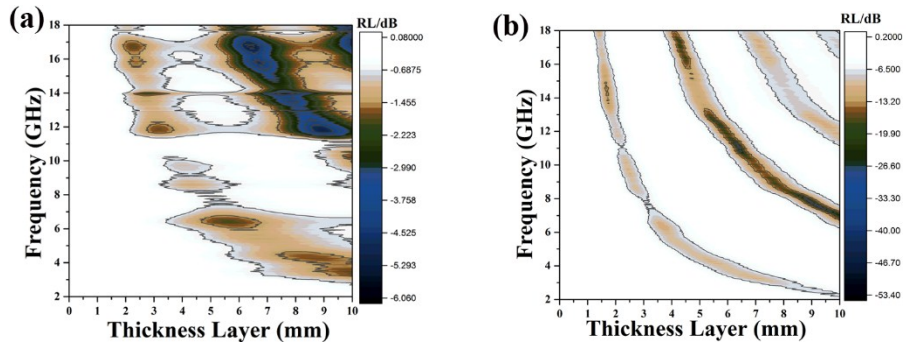


Fig. S3. Two dimensional representation RL values: (a)  $\text{TiO}_2$ , (b) B- $\text{TiO}_2$ .