

Supporting Information

Structure-dependent electrical and magnetic properties of iron oxide composites

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Figure S1. Synthesis routes for $\text{Fe}_3\text{O}_4\text{-Fe}_2\text{O}_3$ composites

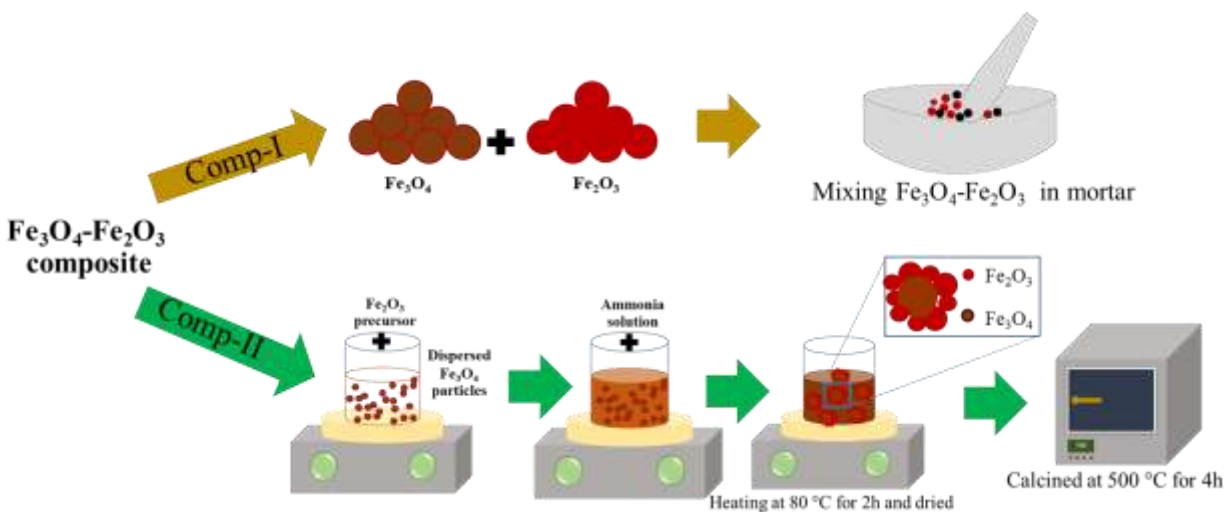


Figure S2. XRD patterns of $\text{Fe}_3\text{O}_4\text{-Fe}_2\text{O}_3$ composite (a) method I and (b) method II.

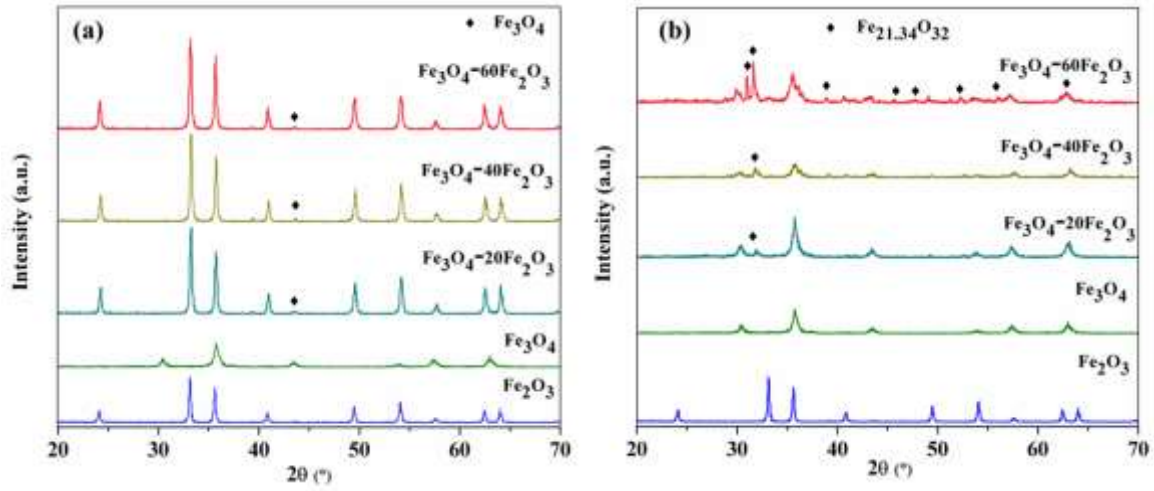


Figure S3. Variation of (a) dielectric constant, and (b) loss tangent with frequency for Fe_3O_4 , Fe_2O_3 , and $\text{Fe}_3\text{O}_4\text{-Fe}_2\text{O}_3$ composite

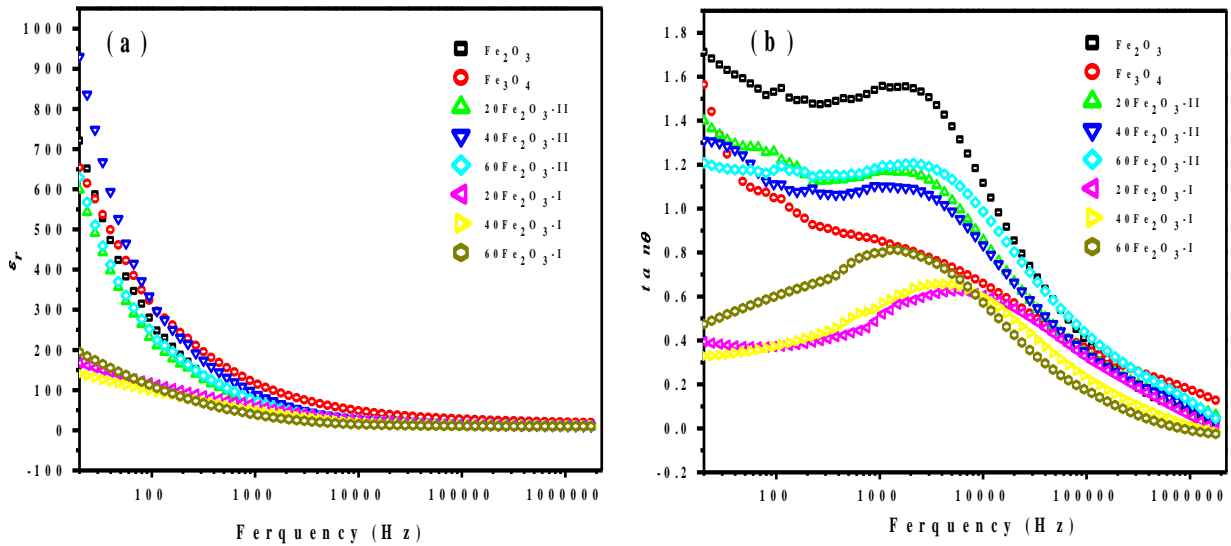


Figure S4. Variation of M' (a-c) and M'' (d-f) as a function of frequency, (a and d) Fe_3O_4 and Fe_2O_3 , (b and e) Fe_3O_4 - Fe_2O_3 Comp-I, and (c and f) Fe_3O_4 - Fe_2O_3 Comp-II

