Supporting information for

Hydrophobic graphene nanosheets decorated by monodispersed superparamagentic Fe₃O₄ nanocrystals as synergistic electromagnetic wave absorbers

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Fig. S1 XRD pattern of the bare $\rm Fe_3O_4$ nanocrystals



Fig. S2 TEM images of the bare Fe₃O₄ nanocrystals



Fig. S3 The histogram of size distribution of Fe₃O₄ nanocrystals in the Fe₃O₄/graphene hybrids



Fig. S4 Frequency dependence of $\mu_r^{"}(\mu_r^{'})^{-2}f^{-1}$ for the bare Fe₃O₄ nanocrystals and hydrophobic Fe₃O₄/graphene hybrids.