Supporting information for

Hydrophobic graphene nanosheets decorated by monodispersed superparamagnetic Fe$_3$O$_4$ nanocrystals as synergistic electromagnetic wave absorbers

Xinliang Zheng$^a$, Juan Feng$^a$, Yan Zong$^a$, Hui Miao$^a$, Xiaoyun Hu$^a$, Jintao Bai$^{a,b}$, Xinghua Li*$^a$

$^a$ School of Physics, Northwest University, Xi’an 710069, China

$^b$ Institute of Photonics and Photo-Technology, Provinical Key Laboratory of Photoelectronic Technology, Northwest University, Xi’an 710069, China

*Corresponding authors: Xinghua Li (lixinghua04@gmail.com)
Fig. S1 XRD pattern of the bare Fe$_3$O$_4$ nanocrystals
Fig. S2 TEM images of the bare Fe₃O₄ nanocrystals
Fig. S3 The histogram of size distribution of Fe$_3$O$_4$ nanocrystals in the Fe$_3$O$_4$/graphene hybrids
Fig. S4 Frequency dependence of $\mu''(\mu')^{-2} f^{-1}$ for the bare Fe$_3$O$_4$ nanocrystals and hydrophobic Fe$_3$O$_4$/graphene hybrids.