Electronic Supplementary Information

The effect of carbon nanotubes/NiFe $_2O_4$ on the thermal stability, combustion behavior and mechanical properties of unsaturated polyester resin

Xiaojuan Yu¹, Dong Wang¹, Bihe Yuan², Lei Song^{1*} and Yuan Hu^{1*}

1.State Key Laboratory of Fire Science, University of Science and Technology of

China, 96 Jinzhai Road, Hefei, Anhui 230026, P. R. China

2.School of Resources and Environmental Engineering, Wuhan University of Technology, Wuhan 430070, China

Corresponding Author

*Tel./Fax: +86-551-63601664. E-mail: <u>yuanhu@ustc.edu.cn</u>. (Yuan Hu) *Tel./Fax: +86-551-63600081. E-mail: <u>leisong@ustc.edu.cn</u>. (Lei Song)

Figure captions

Fig. S1. TGA curves of C@NF-3 under air conditions.

Fig. S2. (a) XPS survey spectra of the NiFe₂O₄ and C@NF-1, (b) Fe 2p XPS spectra

of the NiFe2O4 and C@NF-1, (c) Ni 2p XPS spectra of the NiFe2O4 and C@NF-1

and (d) O 1s XPS spectra of the NiFe2O4 and C@NF-1.

Fig. S3. Raman spectra of the acid-treated MWCNTs and C@NF-1.



Fig. S1. TGA curves of C@NF-3 under air conditions.



Fig. S2. (a) XPS survey spectra of the NiFe₂O₄ and C@NF-1, (b) Fe 2p XPS spectra of the NiFe₂O₄ and C@NF-1, (c) Ni 2p XPS spectra of the NiFe₂O₄ and C@NF-1 and

(d) O 1s XPS spectra of the NiFe₂O₄ and C@NF-1.



Fig. S3. Raman spectra of the acid-treated MWCNTs and C@NF-1.