Supplementary Information

Effect of Nanoporosity on the Electromagnetic Wave Absorption Performance in Biomass-Templated Fe₃O₄/C Composite: A Small-Angle Neutron Scattering Study

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Figure S1 SEM images of (a) FC-500, (b) FC-550, (c) FC-600, (d) FC-650, (e) FC-700, and (f) C-600.



Figure S2 Cole-Cole plots of (a) FC-500, (b) FC-550, (c) FC-600, (d) FC-650, and

(e) FC-700. (f) C_0 value of FC-XXX samples.



Figure S3 (a) Real and imaginary parts of dielectric constants and (b) EM wave absorption performance at different thicknesses of C-600.



Figure S4 The corresponding absorber thicknesses for FC-600 at different frequencies calculated based on geometrical effect (plotted in blue). The frequencies where maximum $loss (RL_{max})$ occurred in Figure 5d at each thickness was plotted as red dots for comparison.