

## Electronic Supplementary Information

### Rapid Evaporation-Induced Self-assembly of Three-Dimensional Photonic Crystals Using Fe<sub>3</sub>O<sub>4</sub>@C Magnetic Nanocomposites

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Table S1 Average hydrodynamic diameters and polydispersity index (PDI) of Fe<sub>3</sub>O<sub>4</sub>@C MNCPs synthesized under different solvothermal reaction temperature.

Fig. S1 Hydrodynamic diameter distribution histograms of Fe<sub>3</sub>O<sub>4</sub>@C MNCPs synthesized under different solvothermal reaction temperature (S1 (a), S2 (b), and S3 (c))

Fig. S2 Digital photos of the dispersions containing the MNCPs with different particle size without under an external magnetic field (S1 (a), S2 (b), and S3 (c))

Table S1

Sample	Average hydrodynamic diameter/nm	RSD (n=5)/%	PDI
S1	219.2	6.95	0.055
S2	254.4	5.52	0.053
S3	287.4	3.97	0.029

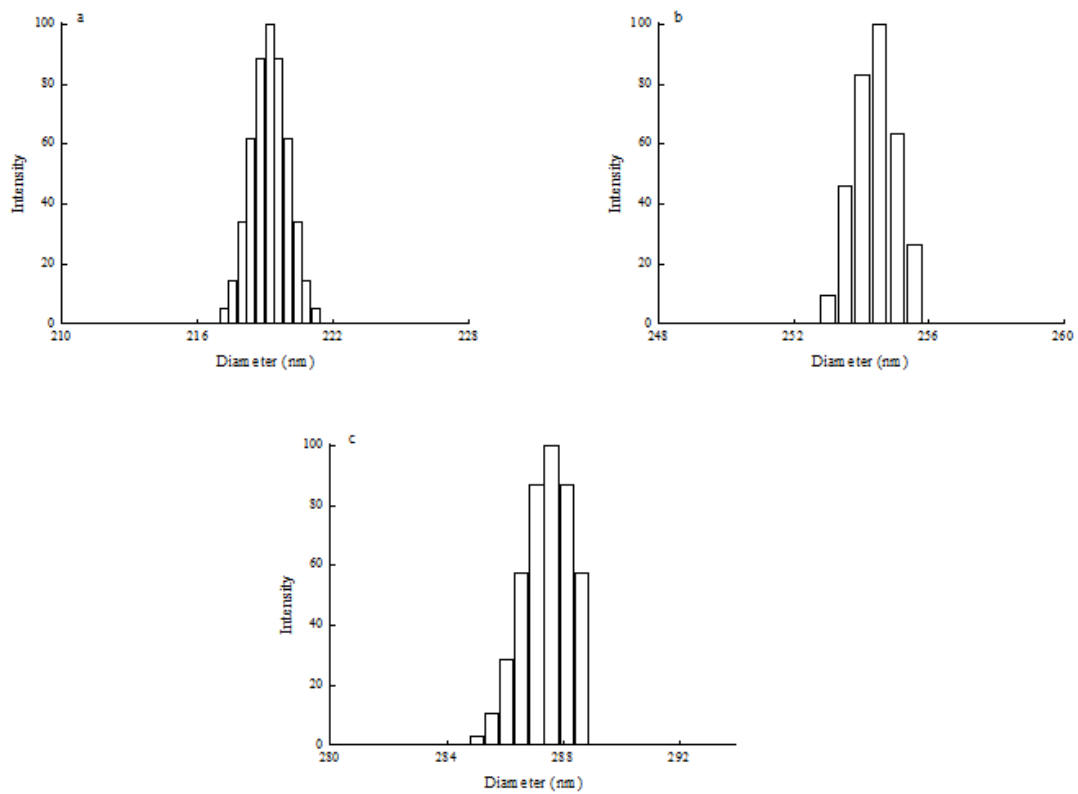


Fig. S1

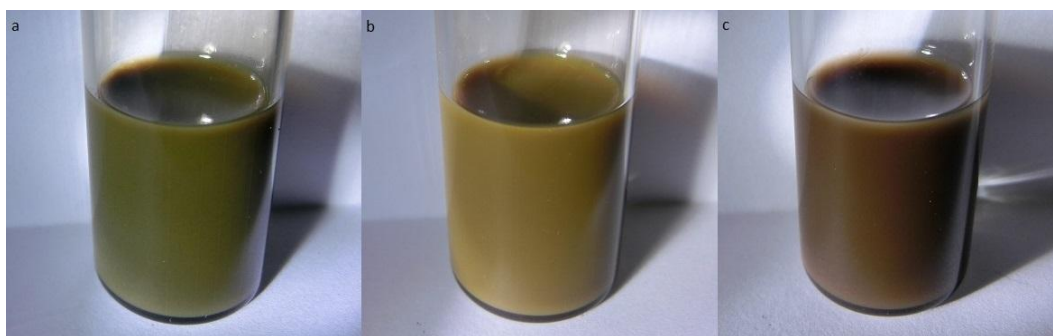


Fig. S2