

Heterogeneous Thermochromic Hydrogel Film Based on Photonic Nanochains

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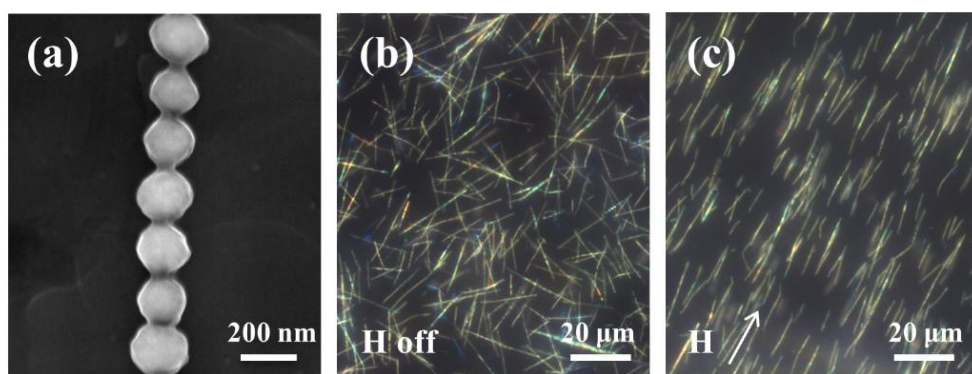


Figure S1. (a) SEM of a single $\text{Fe}_3\text{O}_4@\text{PVP}@\text{P}(\text{AA-co-HEMA})$ PNC. Dark-field optical microscope images of the same batch of PNCs dispersed in mixed solution of ethanol and water under (b) zero, (c) a horizontal magnetic field.

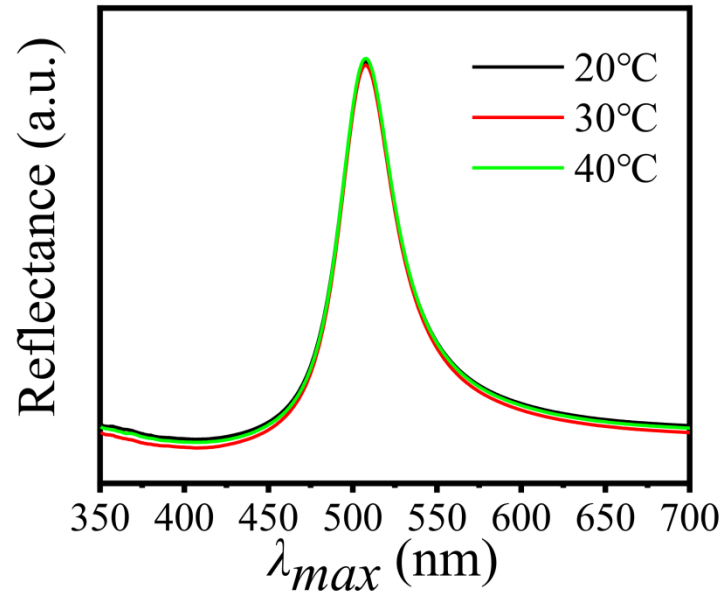


Figure S2. Reflection spectrum of PNCs at different temperature

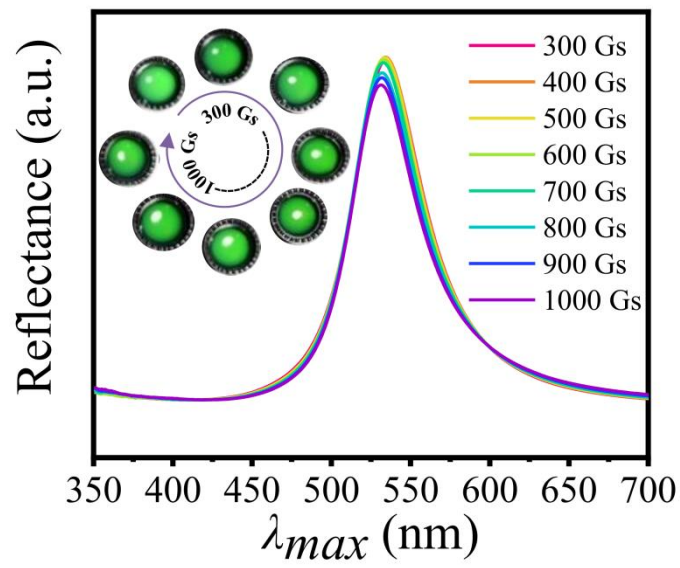


Figure S3. Reflection spectrum of PNCs under different magnetic fields

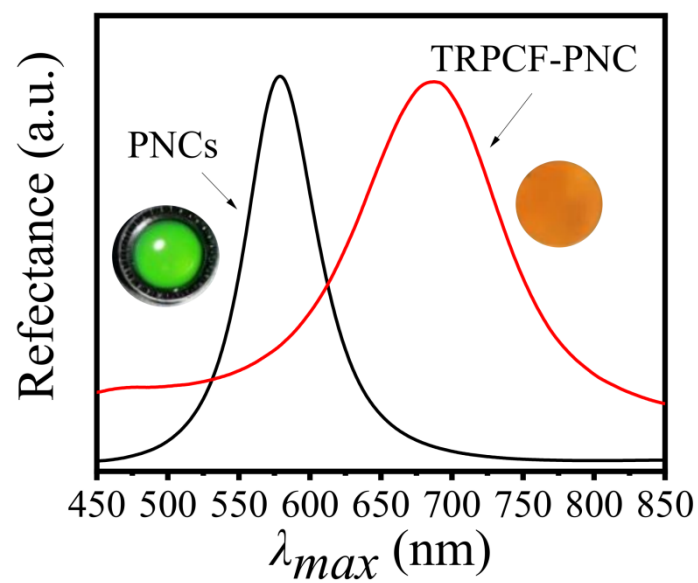


Figure S4. Reflection spectrum of PNCs and swelling-equilibrated TRPCF-PNC

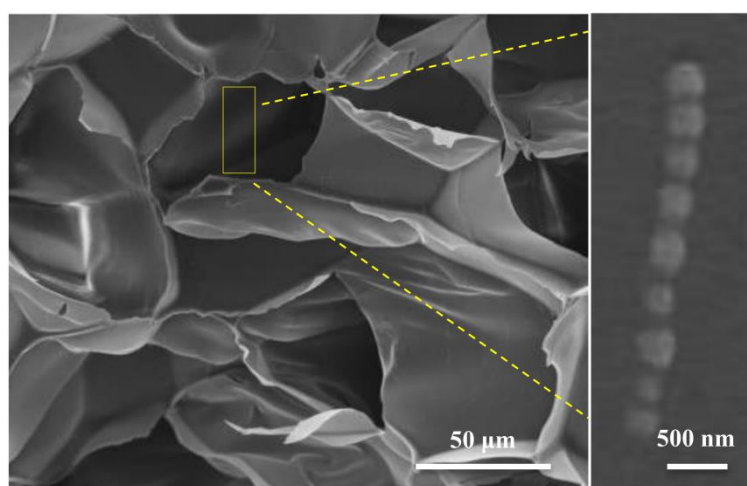


Figure S5. SEM images of TRPCF-PNC and magnification of one PNC.

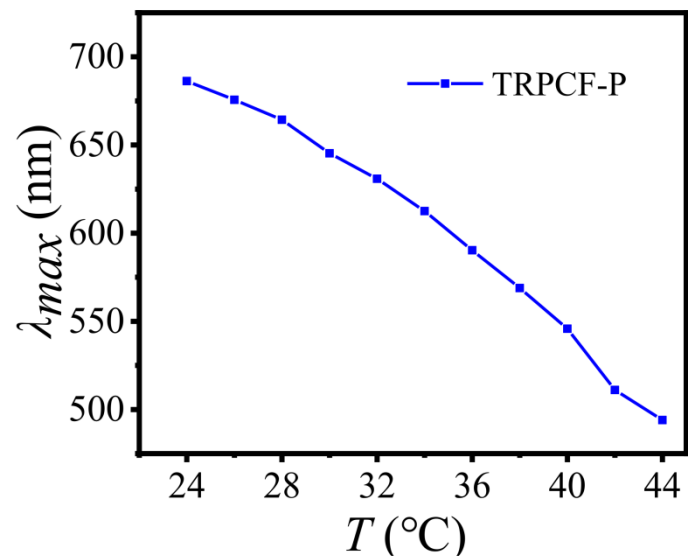


Figure S6. Reflection wavelength at the maximum reflection intensity of TRPCF-P as a function of temperature

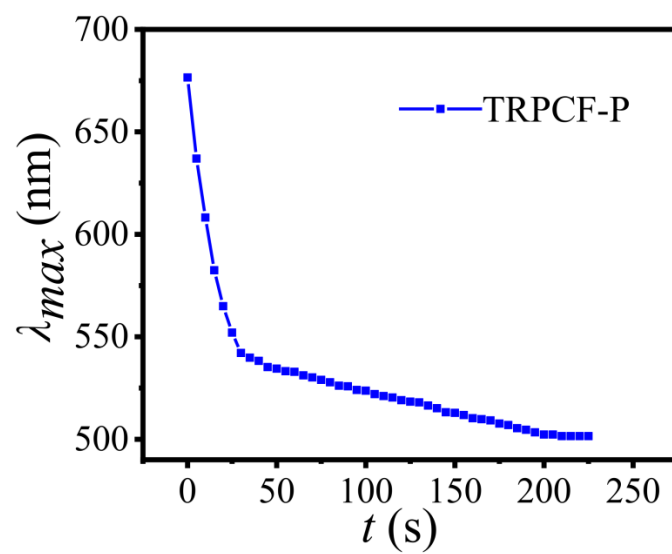


Figure S7. Reflection wavelength as a function of t when transferring TRPCF-P from 26 °C water bath to 44 °C water bath

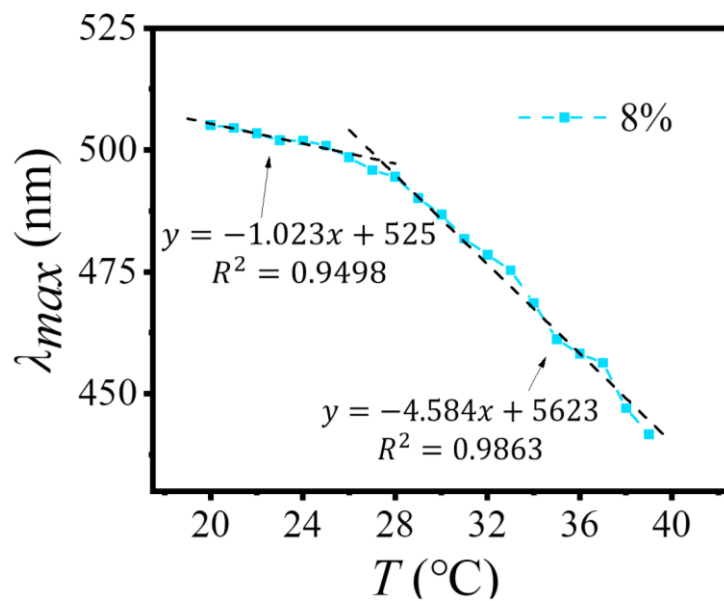


Figure S8. Reflection peak position curves of TRPCF prepared with $\text{Fe}_3\text{O}_4\text{@PVP@PHEMA}$ PNC as a function of temperature