Electronic Supplementary Information

A self-healing supramolecular hydrogel with temperatureresponsive fluorescence based on AIE luminogen

Botian Li*, Yichi Zhang, Bo Yan, Da Xiao, Xue Zhou, Junwei Dong, Qiong Zhou* Department of Materials Science and Engineering, China University of Petroleum-Beijing, Beijing, 102249, People's Republic of China

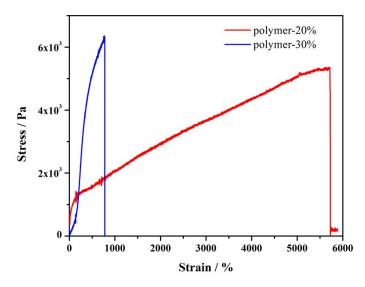


Fig. S1 Tensile curves of TPPE-PAA hydrogels with different polymer concentrations



Fig. S2 Fluorescence image of TPPE acetic acid solution (left) and TPPE-PAA gel (right) at 278 K

* Corresponding authors: E-mail botian.li@cup.edu.cn E-mail zhouqiong_cn@163.com



Fig. S3 Fluorescence image of TPPE-PAA solution (left), and TPPE-PAA solution after adding HCI (right)

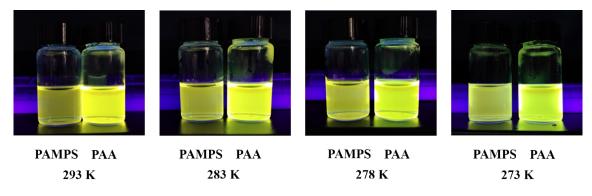


Fig. S4 Fluorescence images of TPPE-PAMPS hydrogel and TPPE-PAA hydrogel at different temperatures under 365 nm UV light

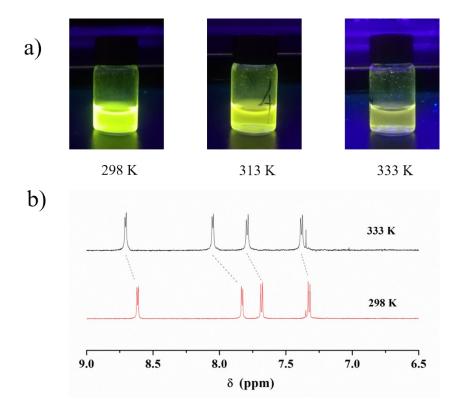


Fig. S5 a) Fluorescence images of TPPE-PAA solution (solvent CH₃OH/H₂O: 4/1) at different temperatures under 365 nm UV light; b) ¹H NMR spectra of TPPE-PAA solution (solvent CD₃OD/D₂O: 4/1)