Supporting information

NIR laser-responsive liquid metal-loaded polymeric hydrogels for controlled release of doxorubicin

Linlin Fan<sup>a</sup>, Xuyang Sun<sup>b</sup>, Xuelin Wang<sup>a</sup>, Hongzhang Wang<sup>a</sup> and Jing Liu<sup>*a,b</sup>

<sup>a</sup>Department of Biomedical Engineering, School of Medicine, Tsinghua University, Beijing 100084, China.
<sup>b</sup>Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100190, China.

*Corresponding authors. E-mail: jliubme@tsinghua.edu.cn

The volume change ratios ($V_T/V_0$) were calculated by the equation $V_T/V_R = (d_T/d_R)^3$, where $d_T$ is the diameter of hydrogel at temperature $T$, and $d_R$ is the diameter of hydrogel at room temperature.

![Graph showing volume changes of PNM and PNM/LM at different temperatures.](image1)

**Fig. S1** Volume changes of PNM and PNM/LM at different temperatures.

![Images showing photographs of PNM/LM and PNM at different temperatures.](image2)

**Fig. S2** Photograph of PNM/LM and PNM at different temperatures.
Fig. S3 Volume changes of PNM/LM under NIR laser irradiation.

Fig. S4 UV-visible-NIR absorbance spectrum of bulk LM, LM droplets and PNM/LM.