

RESEARCH ARTICLE

3D-printed PNAGA thermosensitive hydrogel-based microrobots: An effective cancer therapy by temperature-triggered drug release

Supplementary file

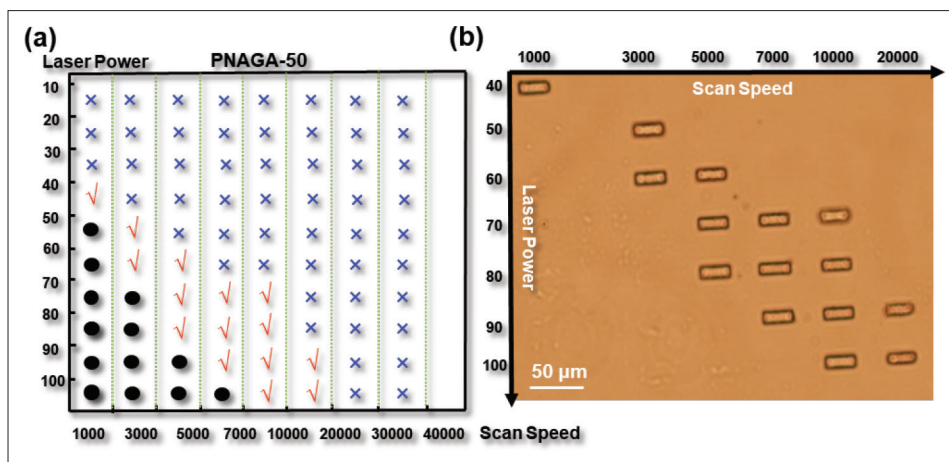


Figure S1. (a) 3D printing window of PNAGA-50 with different printing parameters. (b) Optical image of PNAGA-50 corresponding to the printing parameter in panel (a).

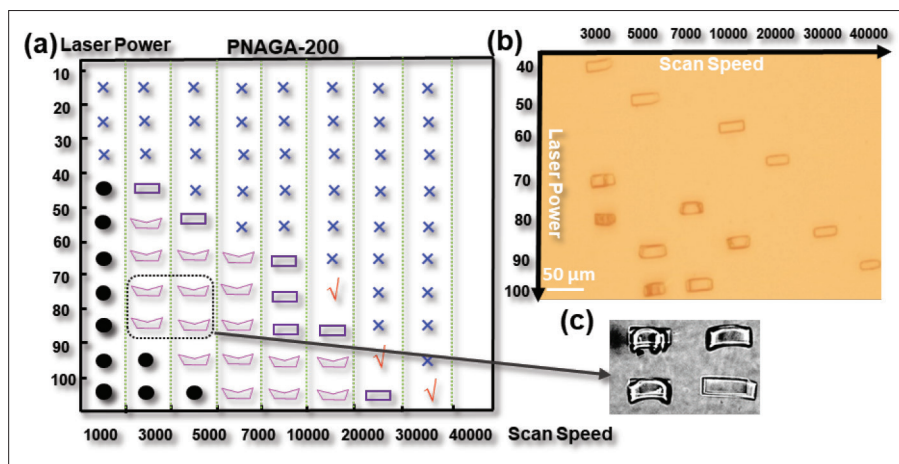


Figure S2. (a) 3D printing window of PNAGA-200 with different printing parameters. (b) Optical image of PNAGA-200 corresponding to the printing parameter in panel (a). (c) Bending state of PNAGA-200-based microstructures.

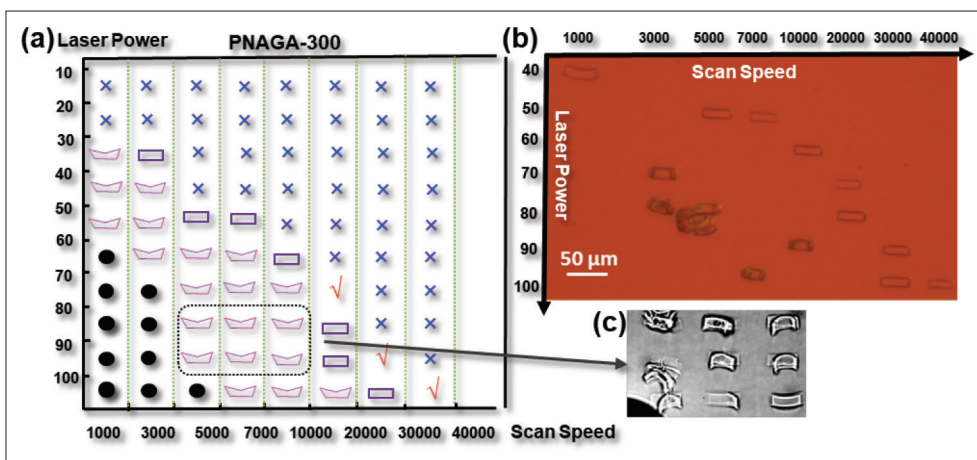


Figure S3. (a) 3D printing of PNAGA-300 with different printing parameters. (b) Optical image of PNAGA-300 corresponding to the printing parameter in panel (a). (c) Bending state of PNAGA-300-based microstructures.

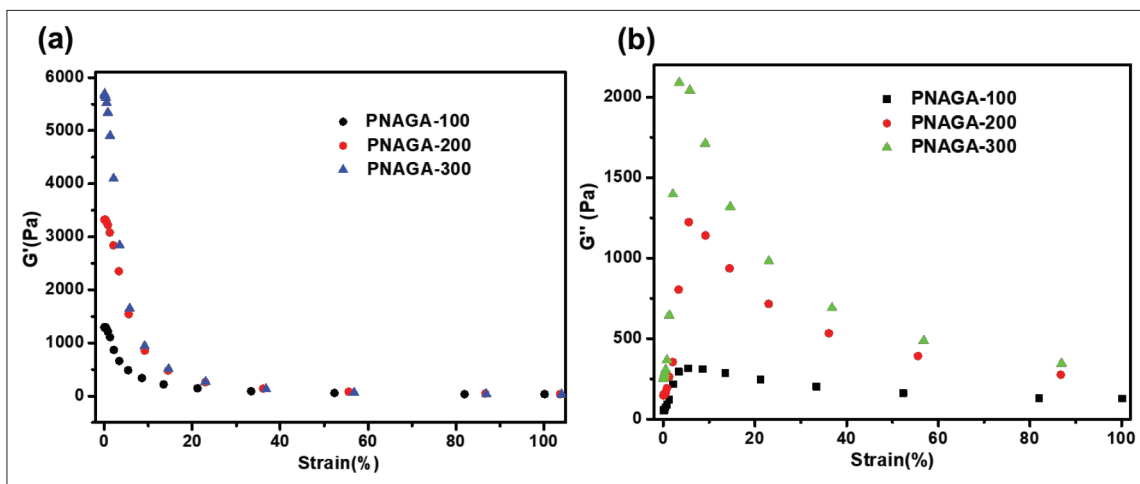


Figure S4. Storage modulus G' (a) and loss modulus G'' (b) of PNAGA-100, PNAGA-200 and PNAGA-300.

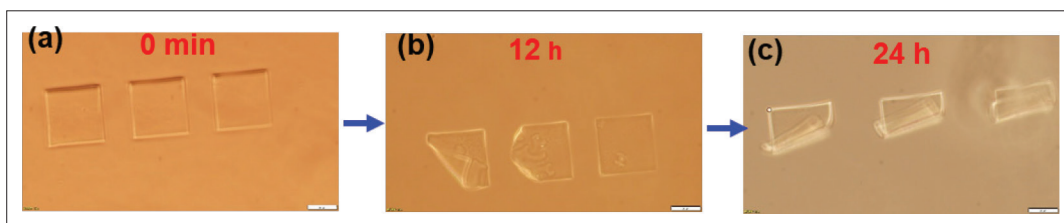


Figure S5. Optical images of PNAGA-300 in 45°C water for (a) 0 min, (b) 12 h, and (c) 24 h, respectively.

Other file:

Videoclip S1. Motion control of a PNAGA-100 based magnetic microrobot.