Supporting Information for

Poly(N-isopropylacrylamide)-poly(ferrocenylsilane) dual-responsive hydrogels: Synthesis, characterization and antimicrobial applications †

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Fig. S1  FTIR spectra of (a) PFS, (b) PNIPAM-2% PFS hydrogel 3 s, (c) PNIPAM-2% PFS hydrogel 60 s, (d) PNIPAM-2% PFS hydrogel 180 s, (e) PNIPAM-2% PFS hydrogel 30 min and (f) PNIPAM hydrogel.
Fig. S2  Photographs of the formed gels: (a) PNIPAM-1% PFS, (b) PNIPAM-2% PFS and (c) PNIPAM-5% PFS.

Fig. S3  Frequency dependence of storage moduli ($G'$) and loss moduli ($G''$) for the obtained PNIPAM-2% PFS hydrogel.
Fig. S4  DSC measurements of the various hydrogels: (a) PNIPAM, (b) PNIPAM-1% PFS-, (c) PNIPAM-2% PFS, (d) PNIPAM-5% PFS, (e) PNIPAM-1% PFS after oxidation, (f) PNIPAM-2% PFS after oxidation and (g) PNIPAM-5% PFS after oxidation.

Fig. S5  SEM image and EDS spectrum of a 2% PFS-PNIPAM/silver composite hydrogel.
Fig. S6  UV-VIS absorption spectra of silver nanoparticles synthesized inside the hydrogel.

Fig. S7  Optical microscopy images of MC-3T3 growing in contact with gels after 3 days. Scale bar = 1 mm.