Facile fabrication of poly(glycidyl methacrylate)-*b*-polystyrene functional fibers under shear field and immobilization of hemoglobin

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Supplementary data

1. ^{1}H NMR spectra of block copolymers

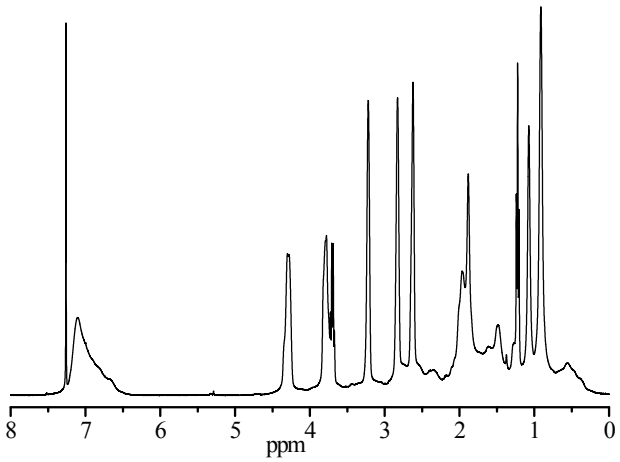

Figure S1 ^{1}HNMR spectrum of block copolymer BCP-1

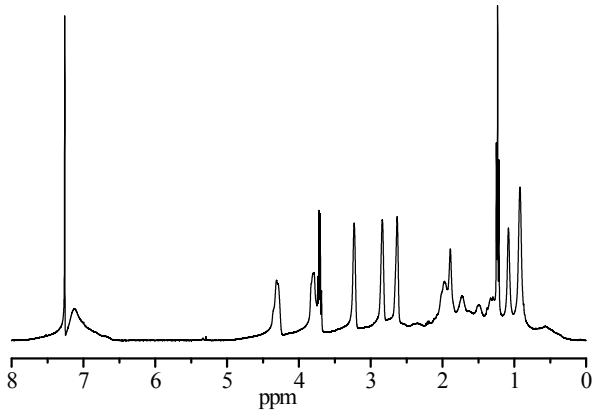

Figure S2 ^{1}HNMR spectrum of block copolymer BCP-2

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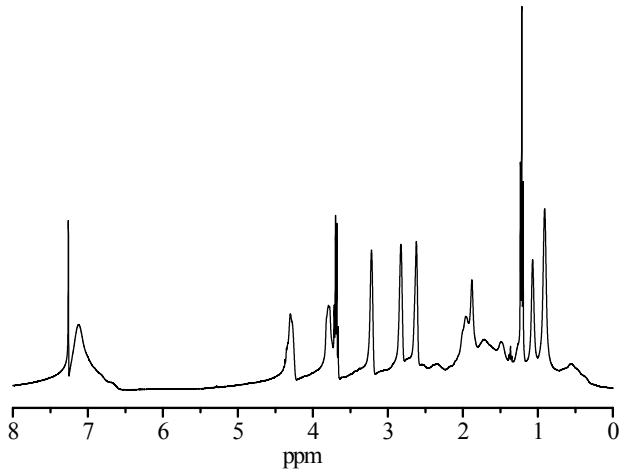

Figure S3 ^{1}HNMR spectrum of block copolymer BCP-4

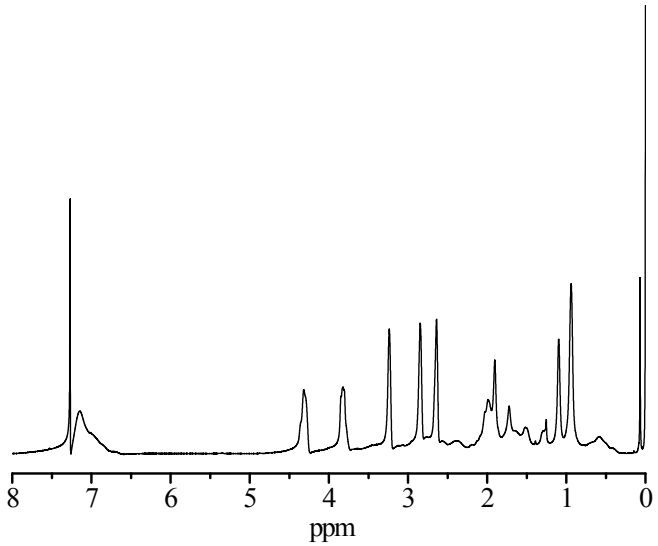

Figure S4 ^{1}HNMR spectrum of block copolymer BCP-5

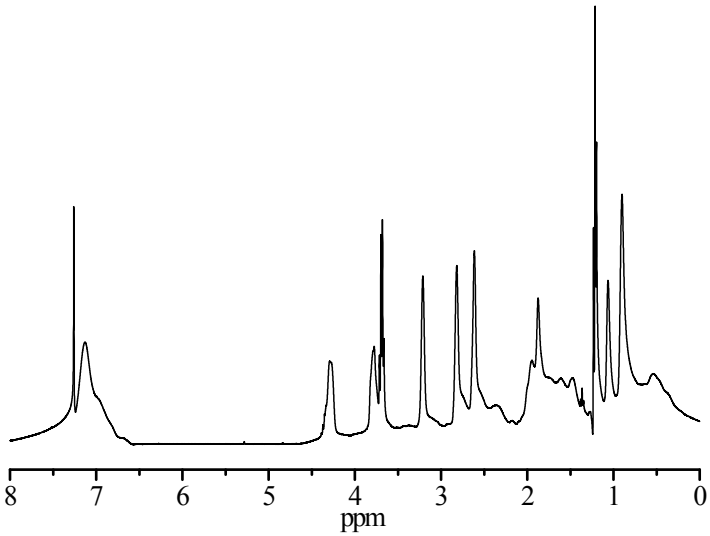

Figure S5 ^{1}HNMR spectrum of block copolymer BCP-6

2. Morphologies of block copolymer fibers

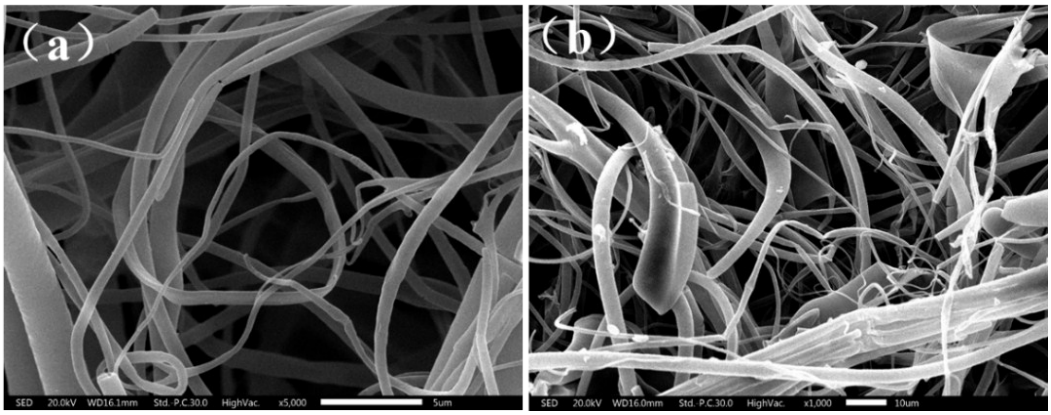

Figure S6 (a) SEM image of PGMA-*b*-PS (BCP-3) fibers, and the solution concentration and rotation speed were 0.3 g/ml and 2000 r/min, respectively; (b) SEM image of PGMA-*b*-PS (BCP-3) fibers, and the solution concentration and rotation speed were 0.4 g/ml and 2000 r/min, respectively.

3. Magnification of DSC curves for PS blocks

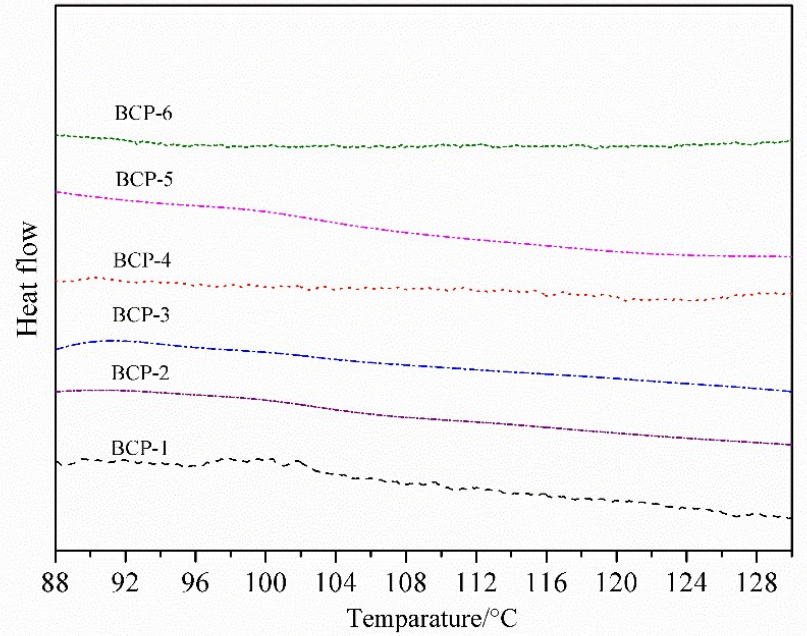

Figure S7 The magnification of DSC curves for PS blocks

4. SEM image of PGMA-*b*-PS fibers formed by BCP-6 and immobilization capacity of bovine hemoglobin versus time

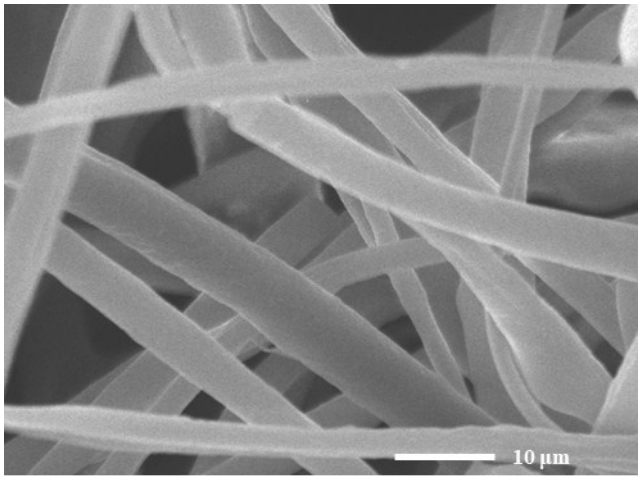

Figure S8 SEM image of PGMA-*b*-PS fibers formed by BCP-6, and the solution concentration and rotation speed were 0.3 g/ml and 1500 r/min, respectively. The contents of glycerin and methanol were 40 ml and 410 ml, respectively.

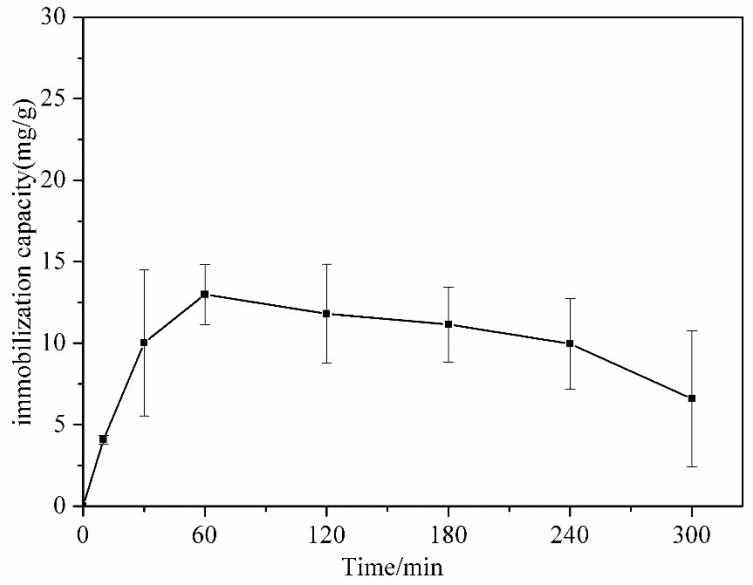

Figure S9 Immobilization capacity of bovine hemoglobin on PGMA-*b*-PS (BCP-6) fibers versus time at the initial hemoglobin concentration of 200 mg/L.