

Synthesis, characterization, micellization and metal
coordination polymerization of pentacyanoferrate-
coordinated block copolymers for monodispersed
soluble Prussian blue nanospheres

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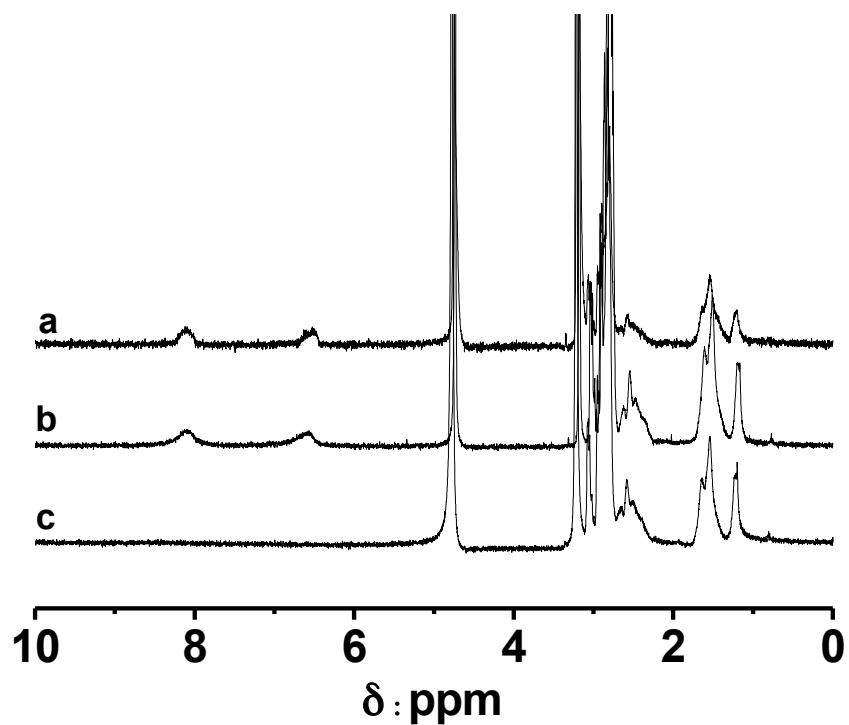


Figure S1. The ¹H NMR spectra of (a) P4VP-*b*-PDMA, (b, c) the solution of P4VP-*b*-PDMA in the presence of FeCl₃ in CD₃OD (b: pyridyl groups: Fe³⁺ = 10: 1 by mole; c: pyridyl groups : Fe³⁺ = 2: 1 by mole).

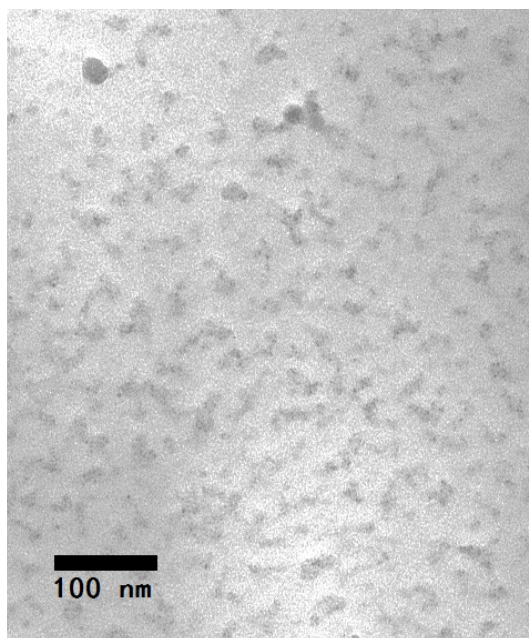


Figure S2. TEM image of PB prepared from metal coordination polymerization of P(4VPFe-co-4VP)-*b*-PDMA with Fe³⁺ in H₂O.

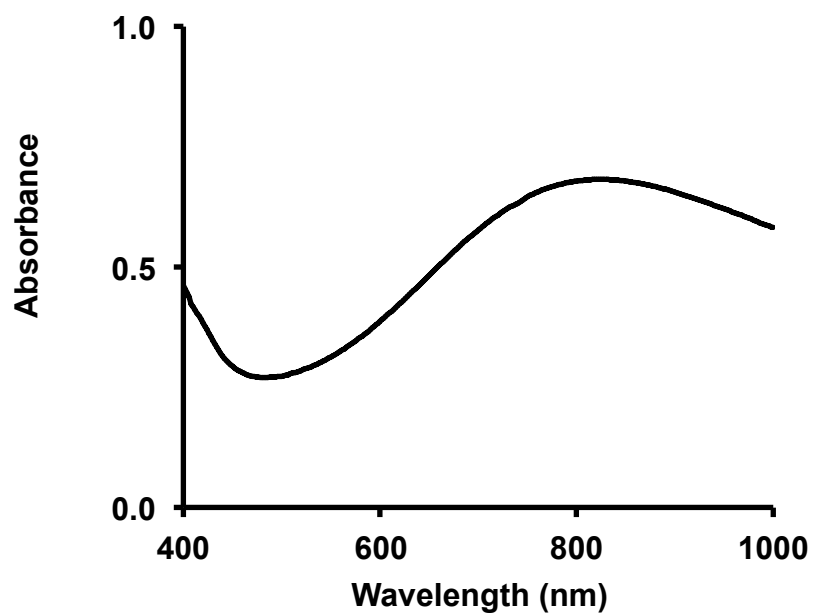


Figure S3. UV-Vis spectrum of PB NPs in H₂O/EtOH (1: 50 v/v).

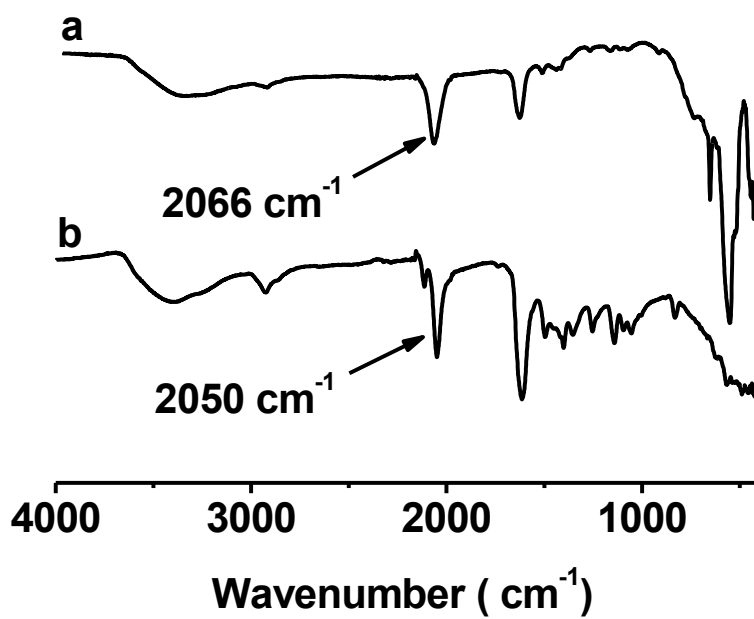


Figure S4. FT-IR spectra of (a) PB NPs and (b) P(4VPFe-*co*-4VP)-*b*-PDMA.

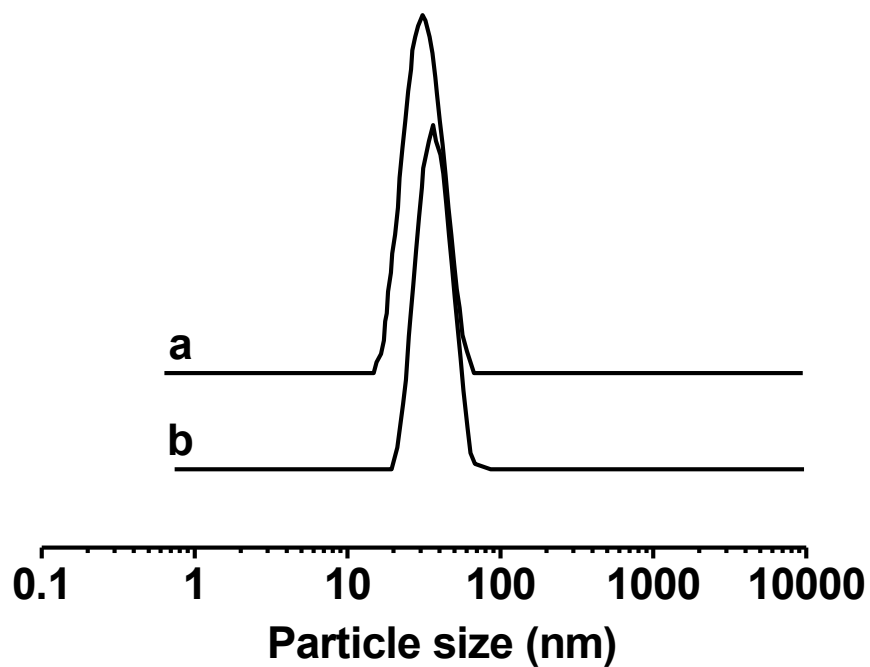


Figure S5. DLS data of (a) micelles self-assembled from P(4VPFe-*co*-4VP)-*b*-PDMA and (b) PB NPs with the Fe³⁺ to pyridyl group ratio of 1:1 by mole in H₂O/EtOH (1: 50 v/v).

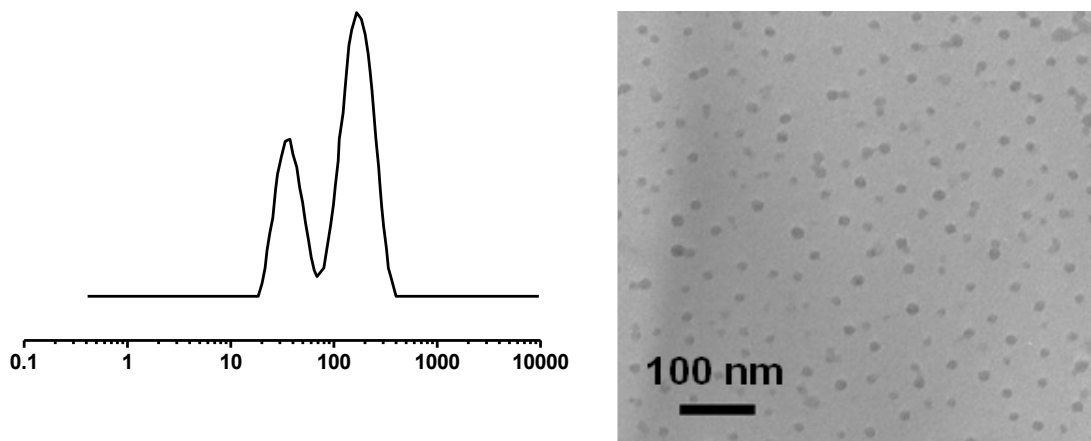


Figure S6. DLS data and TEM image of PB NPs prepared from metal coordination polymerization of P(4VPFe-*co*-4VP)-*b*-PDMA with Fe³⁺ in H₂O/EtOH (1: 50 v/v) (pyridyl group to Fe³⁺ ratio is 1: 5).

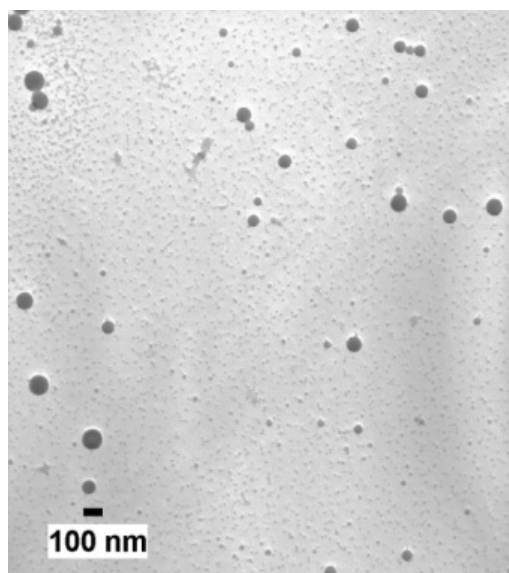


Figure S7. TEM image of PB NPs prepared from metal coordination polymerization of a higher concentration of P(4VPFe-*co*-4VP)-*b*-PDMA (2 mg/mL) with Fe³⁺ in EtOH/H₂O (Pyridyl groups to Fe³⁺ ratio is 1:1).