

Inverse opals of photonic crystal hydrogels for selective sensing of lead ions

Shirong Liu*, Liyan Qin, Zhongbin Ni, Mingqing Chen

The Key Laboratory of Synthetic and Biotechnology, School of Chemical and Material Engineering,
Jiangnan University, Wuxi 214122, China.

*Corresponding Author: Shirong Liu,

E-mail: liushirong1@aliyun.com.

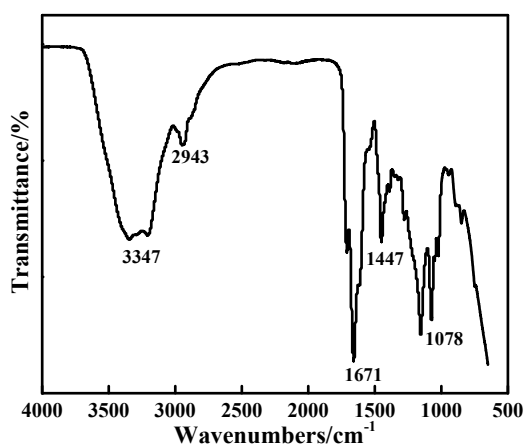


Fig. S1. FT-IR spectrum of P(AM-co-HEMA) PCHs.

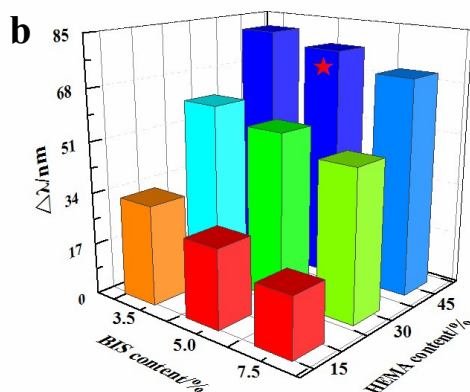
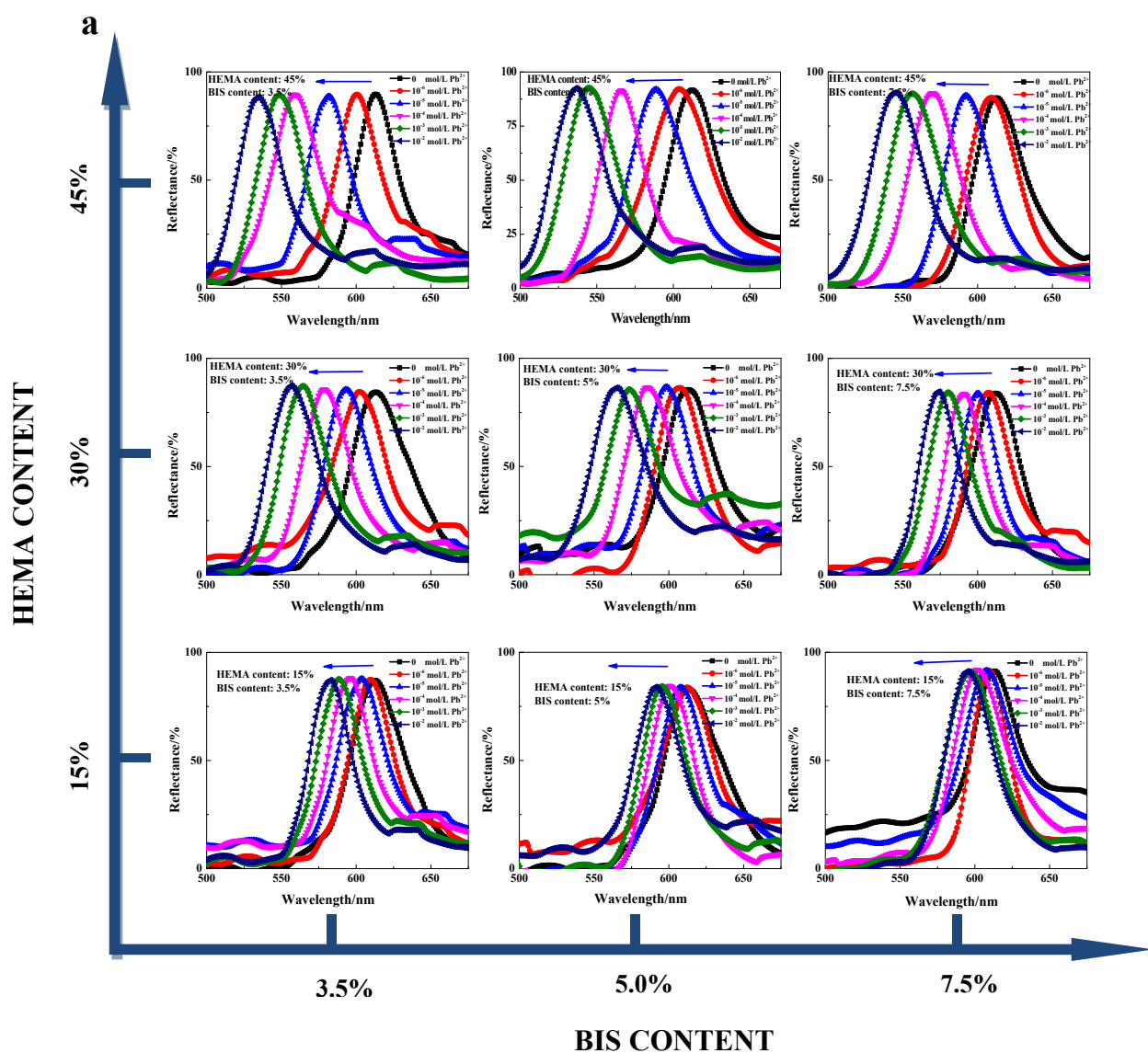


Fig. S2. (a) Reflection spectra of P(AM-co-HEMA) PCHs with different contents of HEMA and BIS in different concentrations of Pb^{2+} solutions. (b) The correlation of the Bragg diffraction peak shift ($\Delta\lambda$) and the amount of HEMA and BIS.

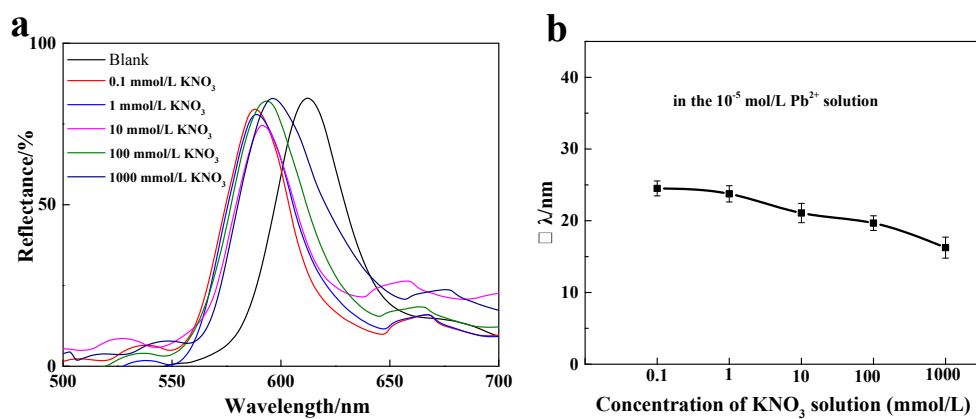


Fig. S3 (a) The reflection spectra and (b) corresponding Bragg diffraction peak shift ($\Delta\lambda$) of the P(AM-co-HEMA) PCHs upon soaking in 10^{-5} mol/L Pb^{2+} solution with different ionic strength.