

Ionic Liquid Poly(3-n-dodecyl-1-vinylimidazolium) Bromide as Adsorbent for the Sorption of Hemoglobin

Xiao-Feng Wang^a, Yue Zhang^a, Yang Shu^b, Xu-Wei Chen^{a*}, Jian-Hua Wang^{a*}

^a *Research Center for Analytical Sciences, Colleges of Sciences, Box 332, Northeastern University, Shenyang, 110819, China.*

Fax: 86 24 83676698; Tel: 86 24 83688944; E-mail: chenxw@mail.neu.edu.cn;

jianhuajrz@mail.neu.edu.cn.

^b *College of Life and Health Science, Northeastern University, Shenyang 110189, China*

Fig. S1 (A) FT-IR spectra of (A) 1-vinylimidazole, (B) C₁₂vimBr and (C)
poly(C₁₂vim)Br

Fig. S2 ¹H NMR of (A) C₁₂vimBr and (B) Poly(C₁₂vim)Br

Fig. S3 ¹³C NMR of (A) C₁₂vimBr and (B) Poly(C₁₂vim)Br

Fig. S4 Mass spectrum of ionic liquid monomer

Fig. S5 SEM image of the polymeric ionic liquid poly(C₁₂vim)Br.

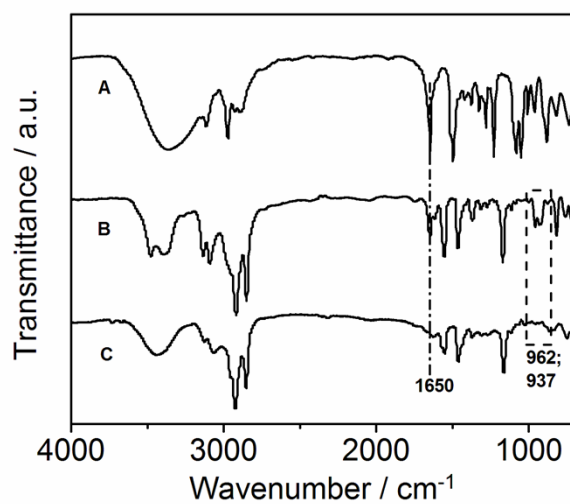


Fig. S1 (A) FT-IR spectra of (A) 1-vinylimidazole, (B) C₁₂vimBr and (C) poly(C₁₂vim)Br.

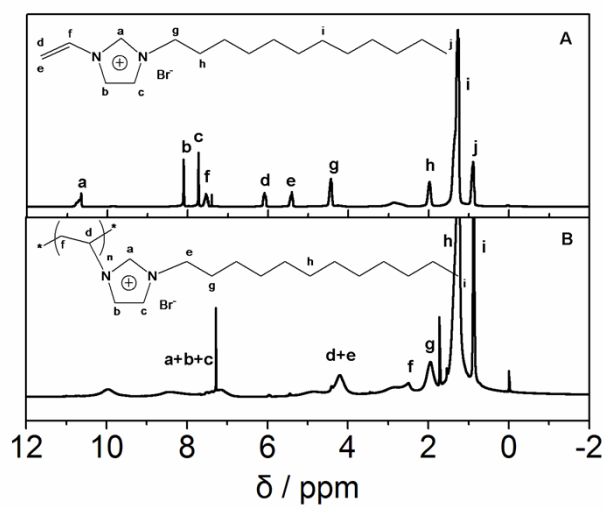


Fig. S2 ^1H NMR of (A) $\text{C}_{12}\text{vimBr}$ and (B) $\text{Poly}(\text{C}_{12}\text{vim})\text{Br}$.

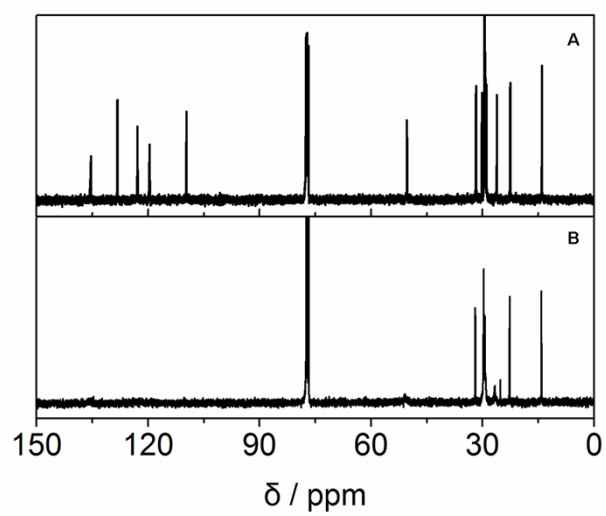


Fig. S3 ^{13}C NMR of (A) $\text{C}_{12}\text{vimBr}$ and (B) $\text{poly}(\text{C}_{12}\text{vim})\text{Br}$.

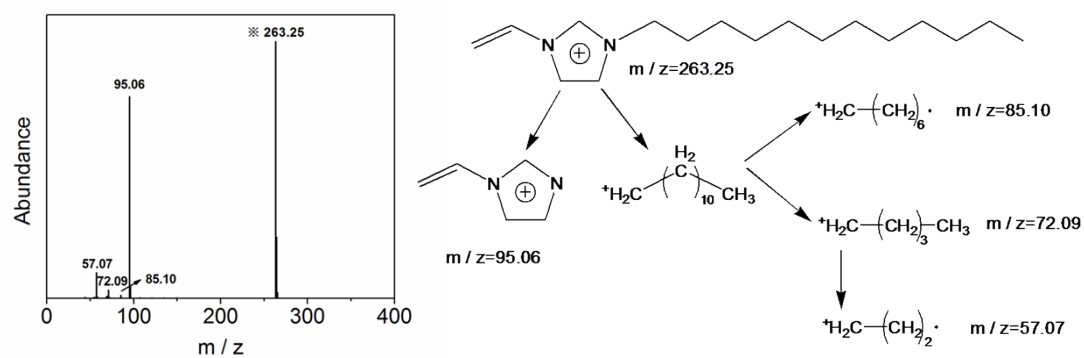


Fig. S4 Mass spectrum of $C_{12}vimBr$.

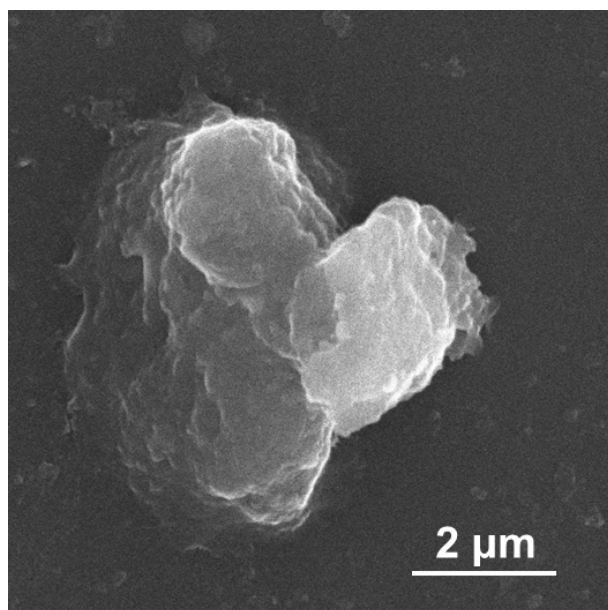


Fig. S5 SEM image of poly(C₁₂vim)Br.