

Electronic Supporting Information

Aqueous dispersions of layered double hydroxide/polyacrylamide nanocomposites: preparation and rheology

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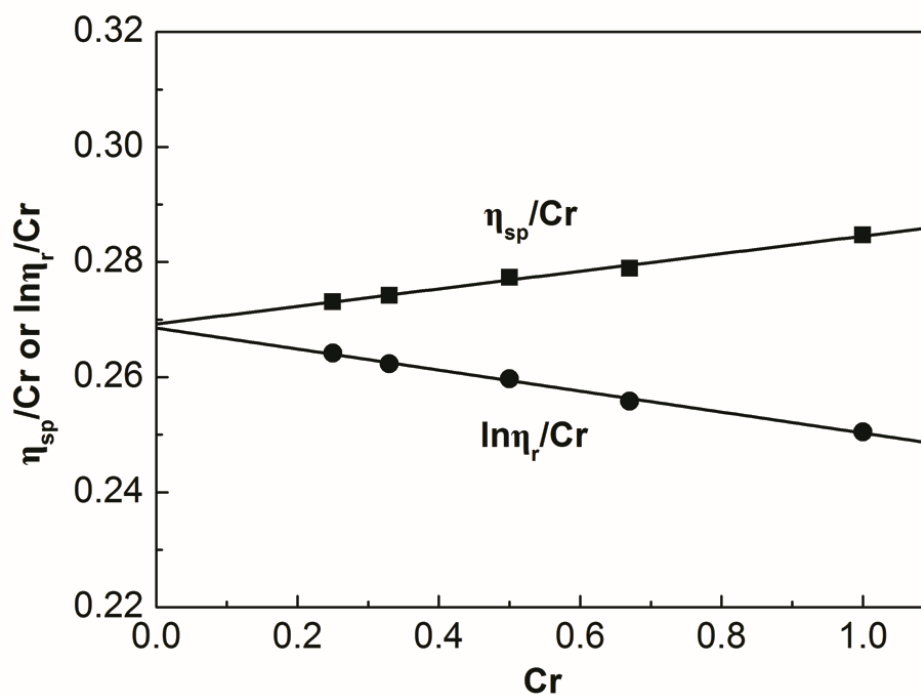


Fig. S1 Dependence of η_{sp}/Cr or $\ln\eta_r/Cr$ on Cr for calculation of $[\eta]$, wherein $\eta_{sp} = \eta_r - 1$, and $Cr = C / C_0$.

Fig. S1 shows the dependence of specific viscosity (η_{sp}) or $\ln\eta_r$ on the ratio (Cr) of the diluted concentration to the initial PAM solution concentration (C_0), where $\eta_{sp} = \eta_r - 1$. According to the two intercepts of the fitting lines, the average value (H) was obtained. Then, $[\eta]$ was measured to be $[\eta] = H/C_0 = 451.2 \text{ mL g}^{-1}$. The corresponding average molecular weight was calculated to be 1.67×10^6 , according to the equation of $M = 802 \times [\eta]^{1.25}$.

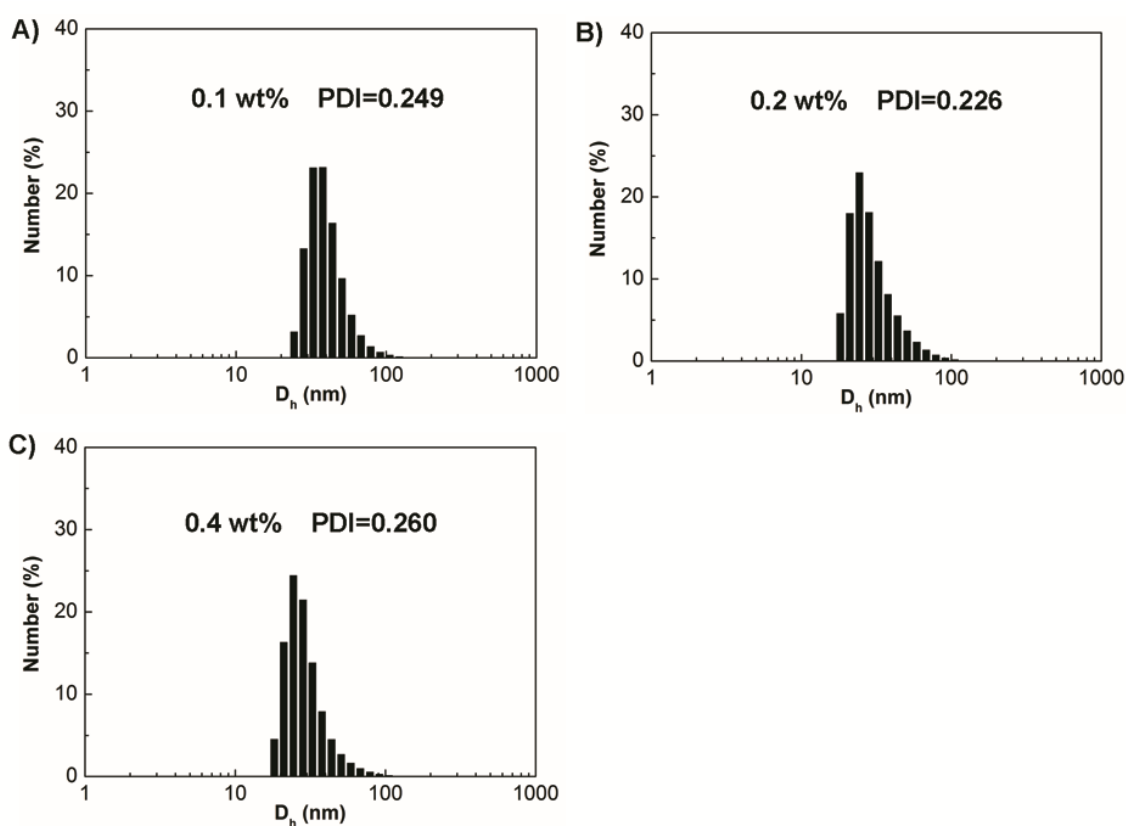


Fig. S2 Particle size distributions measured by DLS for the aqueous dispersions of the LDH-Ise at different concentrations.

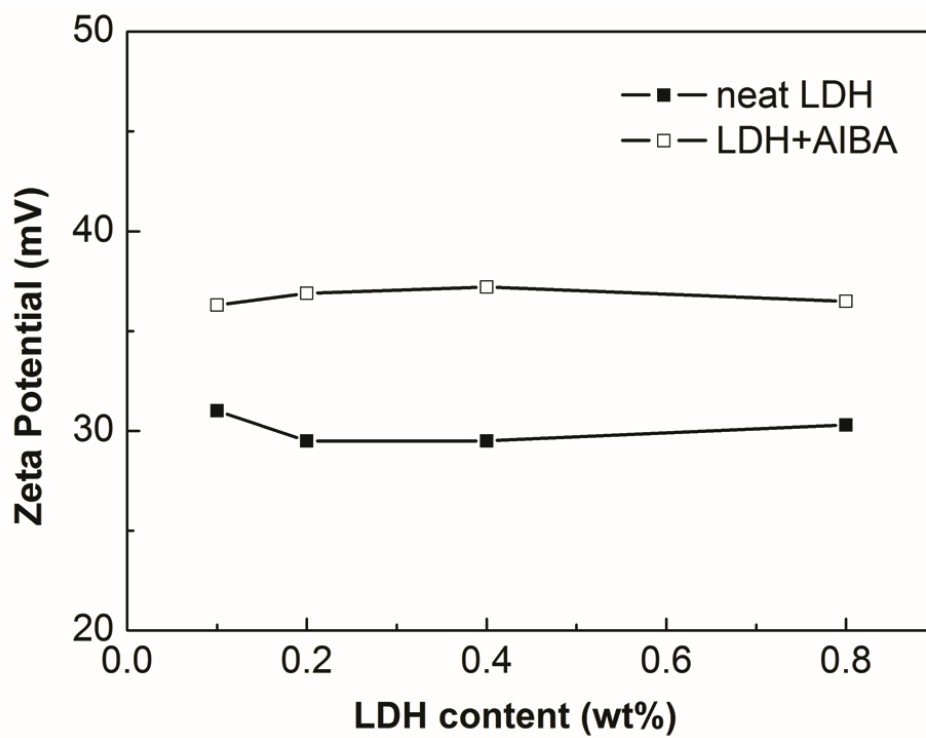


Fig. S3 Comparison of the ξ potentials between the neat LDH and the mixture of LDH+AIBA (AIBA content: 0.1 wt%).