

Supporting Information for

Poly(ionic liquid)s-based Nanocomposite Polyelectrolytes with Tunable Ionic Conductivity Prepared *via* SI-ATRP

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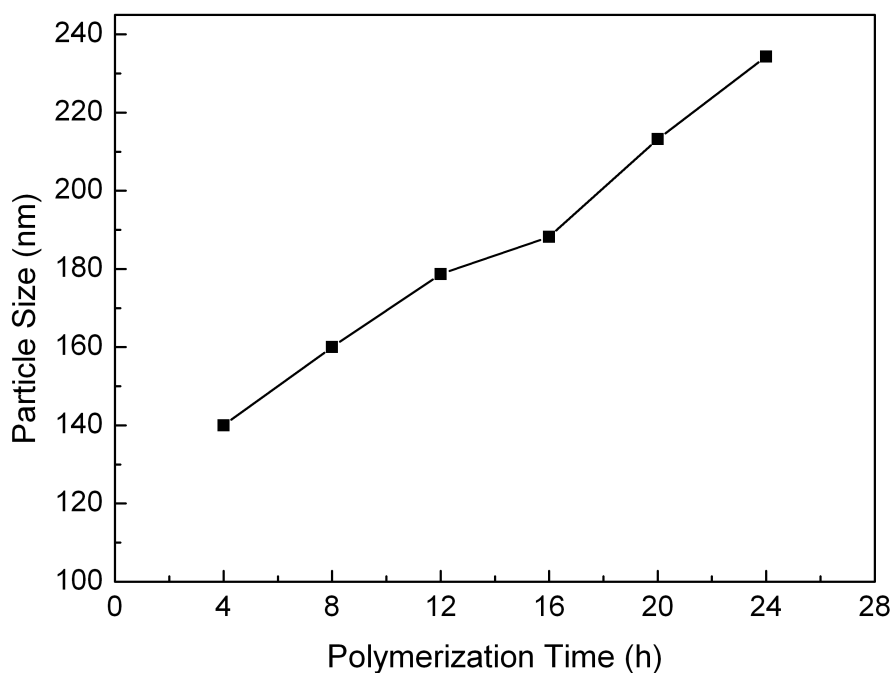


Figure S1. Particle sizes of the SiO₂-P[VBtMA][BF₄] nano-materials at different polymerization time.

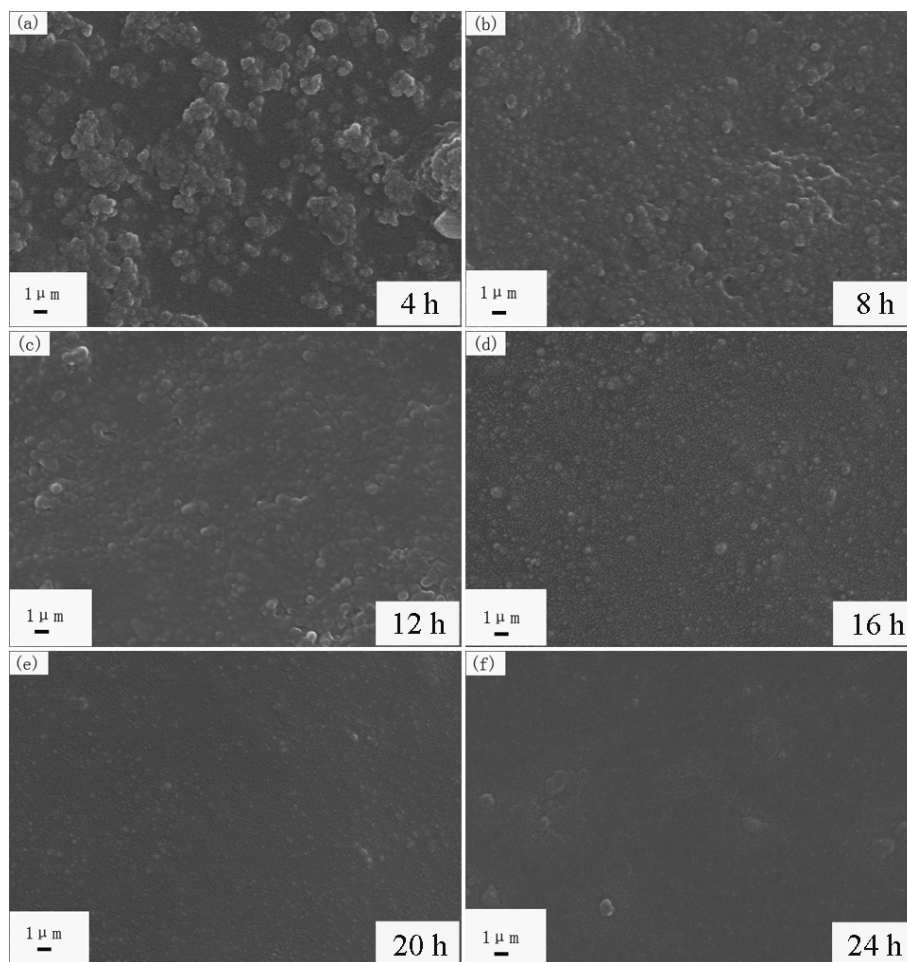


Figure S2. SEM images of (a) $\text{SiO}_2\text{-P[VBTMA][BF}_4\text{]-1}$; (b) $\text{SiO}_2\text{-P[VBTMA][BF}_4\text{]-2}$; (c) $\text{SiO}_2\text{-P[VBTMA][BF}_4\text{]-3}$; (d) $\text{SiO}_2\text{-P[VBTMA][BF}_4\text{]-4}$; (e) $\text{SiO}_2\text{-P[VBTMA][BF}_4\text{]-5}$; (f) $\text{SiO}_2\text{-P[VBTMA][BF}_4\text{]-6}$.