**Supporting Information**

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Figure S1. UV-Vis electronic absorption spectra of (Bu₂bpy)Pt(C≡C₆H₄tpy) and ionogels.

Figure S2. Full DSC curve of an ionogel.
Figure S3. VTF fit of the ionic conductivity data.

Figure S4. Excitation spectrum of the PtEu₂-ionogel.