Electronic Supplementary Information

Multi-Responsive Nafion Films Containing Cationic Metal-Chelate Complexes

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Fig. S1. Absorbance changes of [1·3MeOH]–Nafion monitored at 490 nm for repeated temperature changes between −40 °C (open circles) and 70 °C (filled circles).
Fig. S2. (a) [2·3MeOH]–Nafion at various temperatures. (b) UV-vis absorption spectra of [2·3MeOH]–Nafion recorded between −40 °C and 100 °C at 20 K intervals. The change is irreversible above 80 °C because of the desorption of MeOH. The insert shows the temperature dependence of the molar ratio ($x_4$) of four-coordinated species in the film.

Fig. S3. [1]–Nafion (a) before and (b) after immersion in various solvents.