Supporting Information

Cation-Anion Packing and Molecular Motion in (*m*-Fluoroanilinium)(dibenzo[18]crown-6)[Ni(mnt)₂]⁻(CH₃CN)_{0.25} Crystals

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Figure S1. IR spectrum of crystal 1 in KBr pellet.



Figure S2. UV-vis-NIR spectrum of crystal 1 in KBr pellet.



Figure S3. The relationship between the crystal shape and axis.









Figure S5. Atomic numbering scheme of crystal 1.



Figure S6. Temperature-dependent oscillation photograph of crystal **1** at a) 296 K, b) 326 K, c) 346 K, d) 366 K, e) 386 K, and f) 296 K (cooling from 386 K).



Fig. S7. Temperature- (400 K > T > 300 K) and frequency-dependency (1000 kHz > f > 10 kHz) of the dielectric constant (ε_1) for single crystal **1** along the a) a- and b) b+c-axes. The cooling processes were indicated in the allow, showing the different behaviours from those of heating processes due to the loss of CH₃CN molecules.