Supporting Information For

A pair of dinuclear Re(I) enantiomers: synthesis, crystal structures, chiroptical and ferroelectric properties

Xi-Li Li,*[a] Zhiqiang Zhang,[a] Xue-Li Zhang,[a] Jia-Long Kang,[a] Ai-Ling Wang,[a] Liming Zhou[a] and Shaoming Fang*[a]

[a]Henan Provincial Key Laboratory of Surface and Interface Science, Collaborative Innovation Center of Environmental Pollution Control and Ecological Restoration, Zhengzhou University of Light Industry, Zhengzhou 450002, China

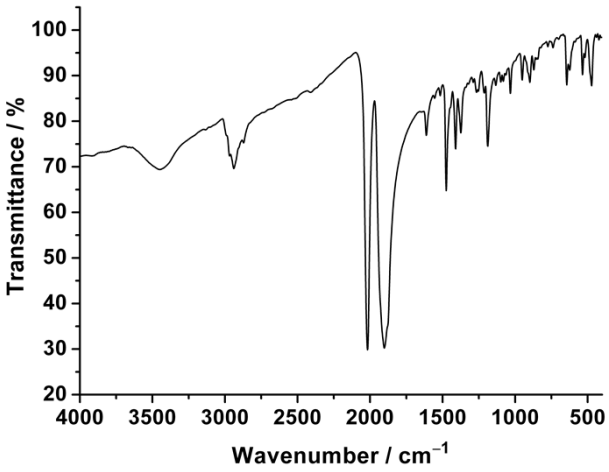

Fig. S1 FT-IR spectrum of ***S*-1**

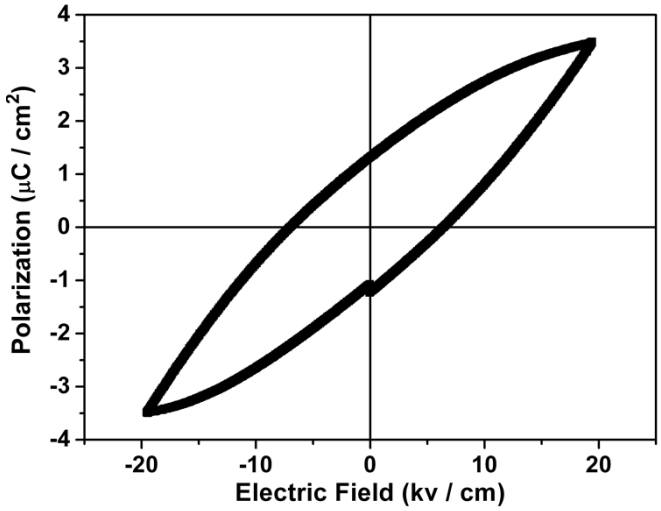

Fig. S2 *P-E* hysteresis loop of ***S*-1** based on a single-crystal sample at room temperature.

Table S1. Selected bond lengths (Å) and angles (°) for ***R*-1 and *S*-1**.

***R*-1**					
Re1-N1	2.168(19)	Re1-N2	2.145(18)	Re2-N3	2.150(15)
Re2-N4	2.147(17)	Re1-C1	2.236(17)	Re1-C2	1.93(2)
Re1-C3	1.91(2)	Re2-C4	1.87(3)	Re2-C5	1.83(2)
Re2-C6	1.93(3)	Re1-Cl1	2.402(13)	Re2-Cl2	2.420(12)
N2-Re1-N1	74.9(7)	N4-Re2-N3	74.5(6)	C2-Re1-N1	99.7(8)
C1-Re1-N2	83.8(6)	N3-Re2-C4	99.9(9)	N4-Re2-C6	93.2(9)
***S*-1**					
Re1-N1	2.197(12)	Re1-N2	2.170(12)	Re2-N3	2.108(13)
Re2-N4	2.140(12)	Re1-C1	2.19(3)	Re1-C2	1.901(16)
Re1-C3	1.893(17)	Re2-C4	1.882(19)	Re2-C5	1.895(16)
Re2-C6	2.101(16)	Re1-Cl1	2.410(9)	Re2-Cl2	2.426(7)
N2-Re1-N1	74.8(5)	N4-Re2-N3	73.8(4)	C2-Re1-N1	99.7(6)
C1-Re1-N2	85.6(8)	N3-Re2-C4	99.9(6)	N4-Re2-C6	90.1(5)