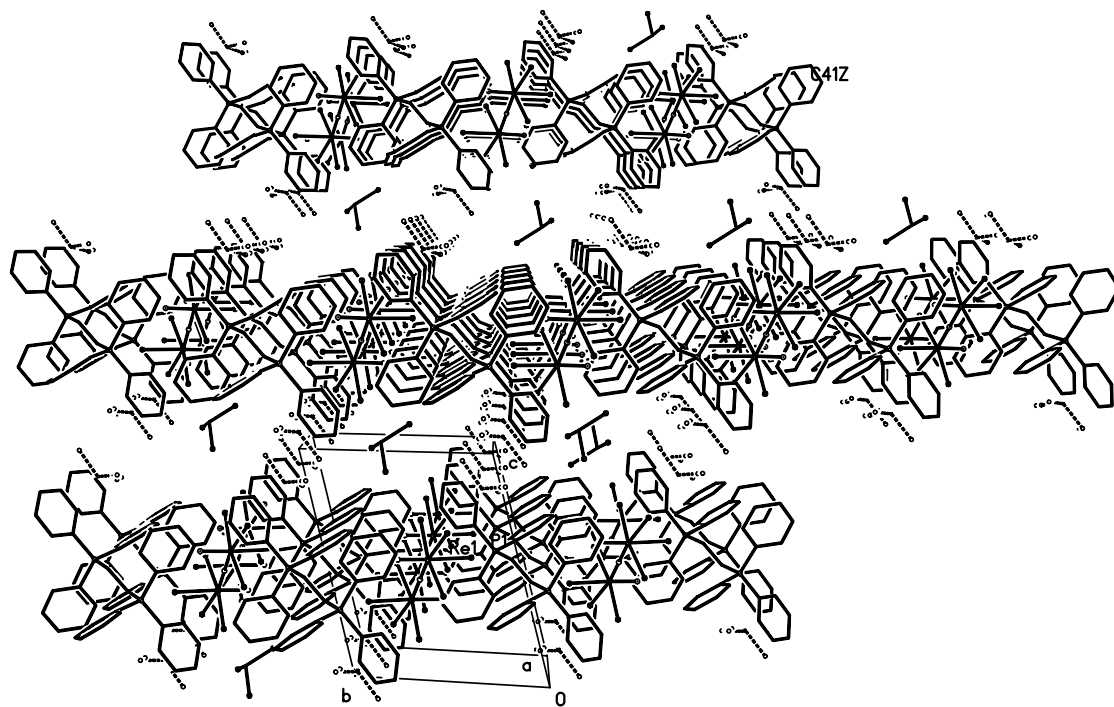


Supporting information

Remarkably stable dinuclear, diamagnetic rhenium(VI) salts with the $[\text{ReOCl}_4\text{OReOCl}_4]^{2-}$ anion

Małgorzata Holyńska*^a and Tadeusz Lis^a



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Fig. S1 Crystal structure packing in **A**: cation, anion and chloroform molecules columns along [100] (the disordered chloroform molecule is denoted with dashed lines). H atoms are omitted and the C atoms are shown without thermal ellipsoids for clarity.

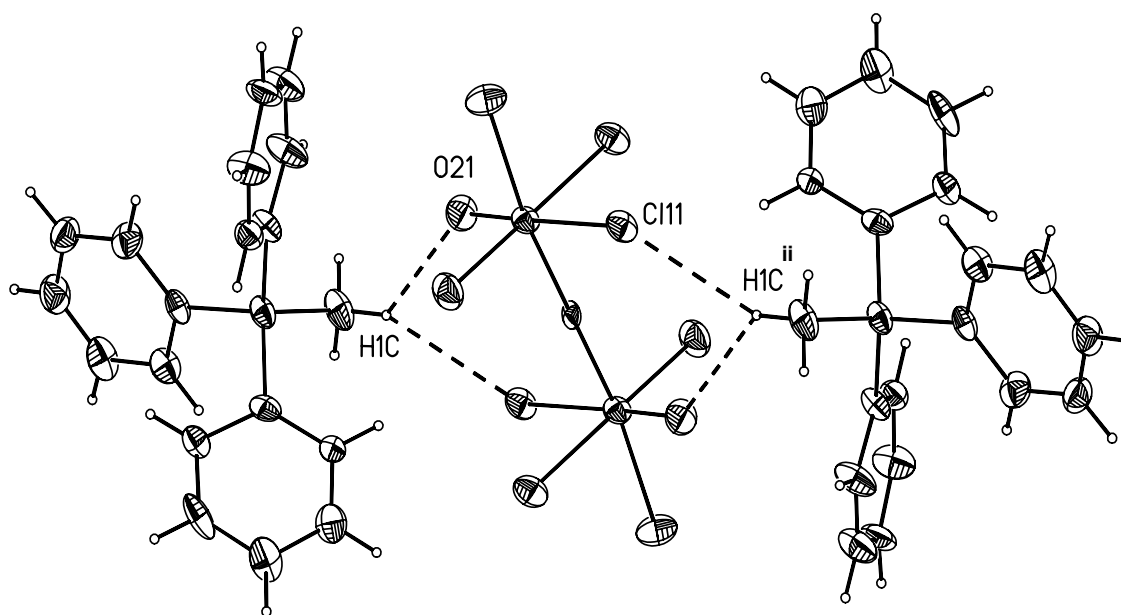


Fig. S2 The structural motif formed by two cations and one anion in structure **B**. Symmetry code: [ii] $-x+1, -y+2, -z+1$. Thermal ellipsoids are drawn at 30% probability level.

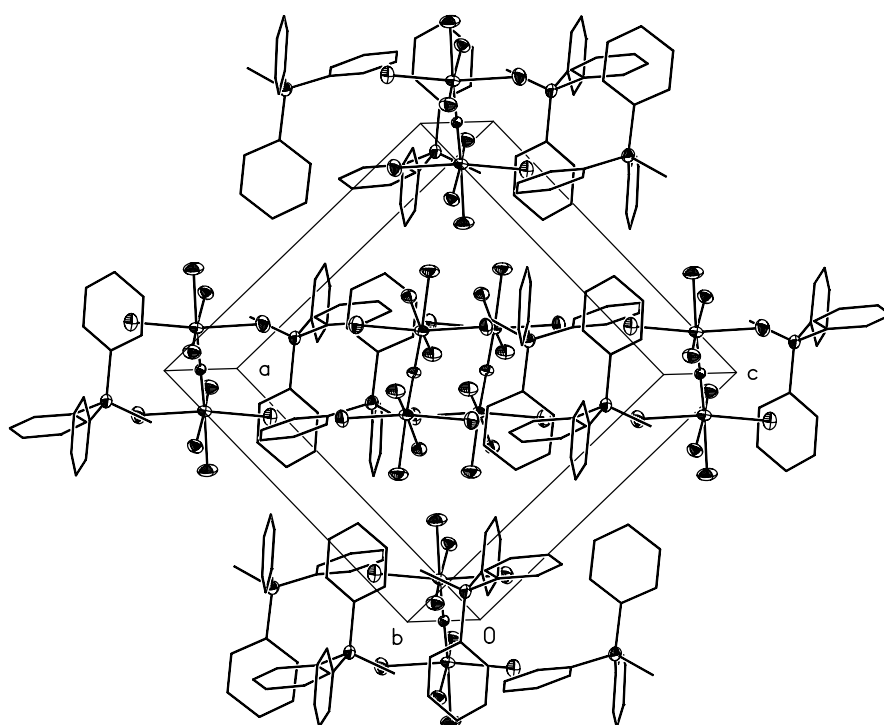


Fig. S3 Crystal structure packing in **B**: cation and anion columns extending along [010].

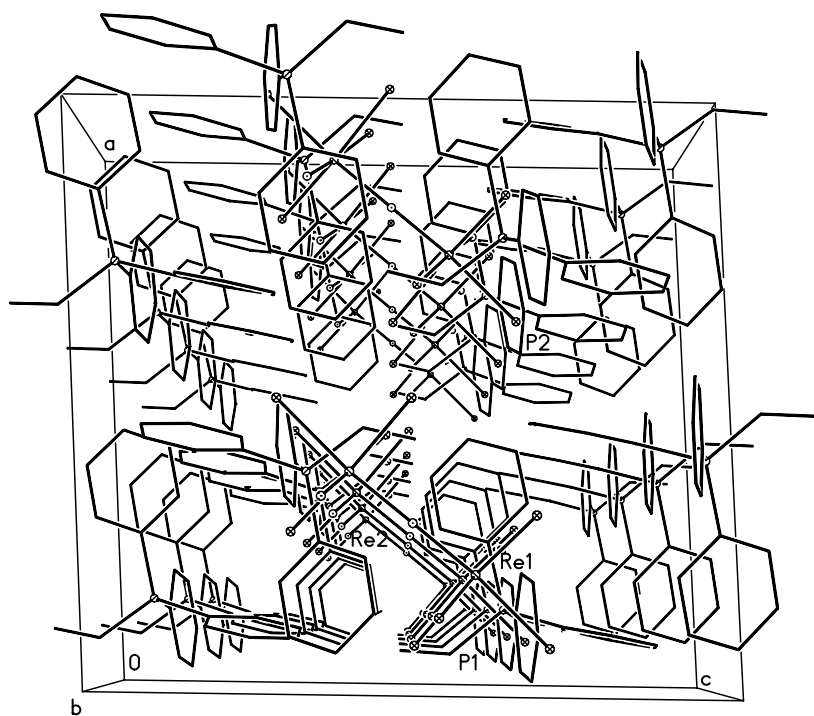


Fig. S4 Crystal structure packing in **C**: the layered arrangement of cations and anions.

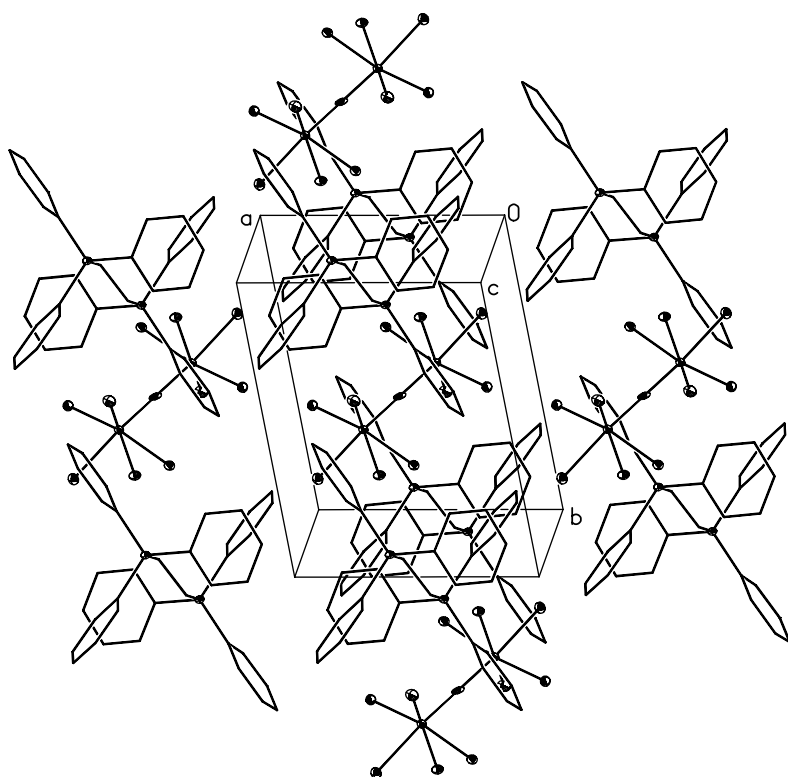


Fig. S5 Crystal structure packing in **D**: cation layers perpendicular to [010].

