Supporting information

MX-type single chain complex with aromatic in-plane ligand: incorporation of aromatic interactions for stabilizing chain structure

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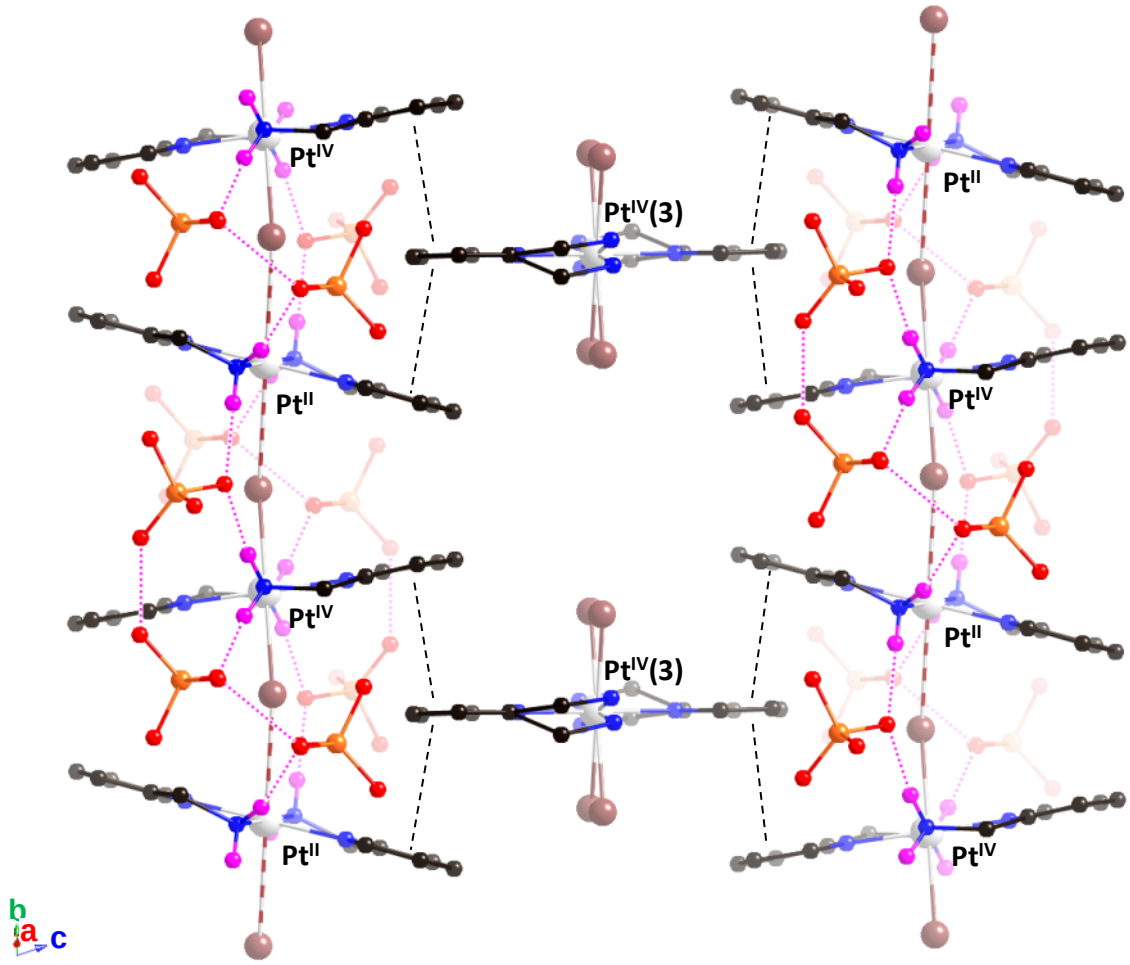

Fig. S1. Crystal structure of **4** showing interactions between two adjacent MX chains. Hydrogen-bond network and π-π interactions are shown in pink dotted line and black dashed line, respectively. Counteranions and water molecules unrelated to the hydrogen-bond network along the chain are omitted for clarity. Hydrogen atoms are also omitted except those of amino group. Light gray, Pt; brown, Br; orange, P; black, C; blue, N; red, O; pink, H.

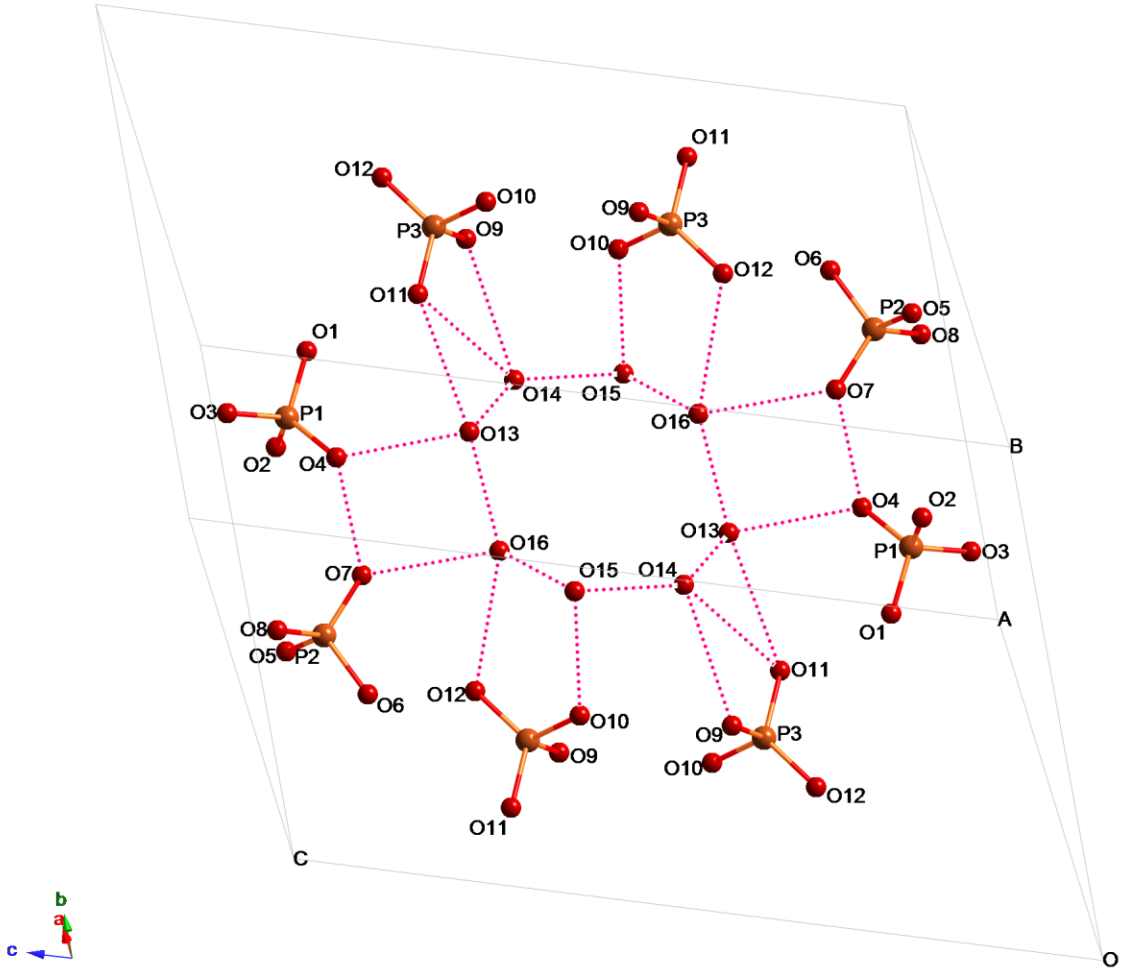

Fig. S2. Crystal structure around lattice water molecules in **4**. The O...O distances in the range of 2.58–3.30 Å, which are indication of hydrogen bonds, are shown in pink dotted lines. Only P and O atoms are shown for clarity. The maximum number of hydrogen bonds at one O atom is four, consistent with the network of the pink dotted lines, though the angles are not ideal tetrahedral geometry. The occupancy of O15 atom is 0.5 though that of other O atoms are 1.0. Orange, P; red, O.

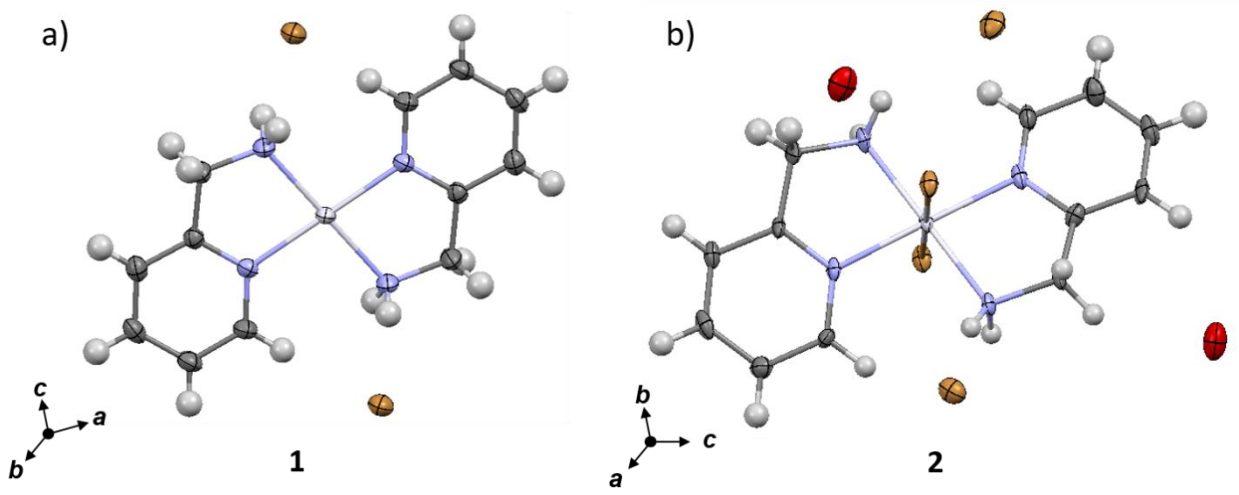

Fig. S3. Crystal structures with perspective views of (a) **1** and (b) **2** at 298 K and 123 K, respectively. All atoms are shown by thermal ellipsoids drawn at the 50% probability level. light gray, Pt; yellow, Br; red, O; blue N; dark gray, C; silver H.