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## **Supporting information**

Photodimerization of an olefin-containing pyridinium-based metal—organic complex and isomerization of its cyclobutane product upon recrystallization

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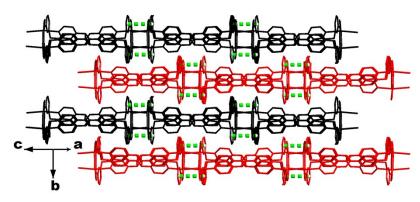


Fig. S1 The -ABAB- stacking of the 1D chains in compound 1 as viewed towards (100) plane.

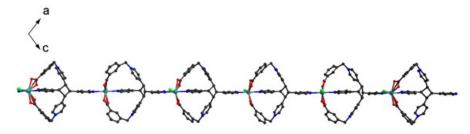


Fig. S2 The 1D coordination polymeric chain in compound 2.

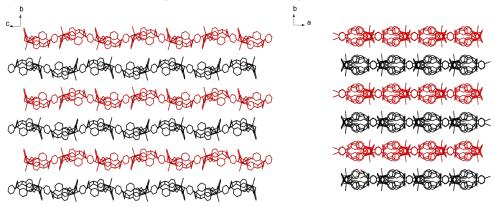


Fig. S3 The -ABAB- packing structure of 2 in the (100) plane (a) and in the (001) plane (b).

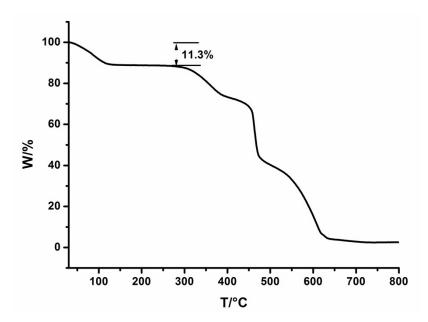


Fig. S4 The TG plot of compound 1.

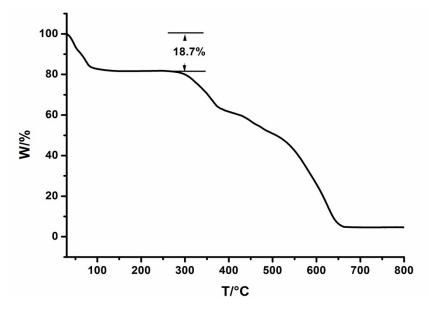


Fig. S5 The TG plot of compound 2.