Supporting materials

A ladder based on paddlewheel diruthenium(II, II) rungs connected by TCNQ rails: a polymorph of the hexagonal 2-D network phase

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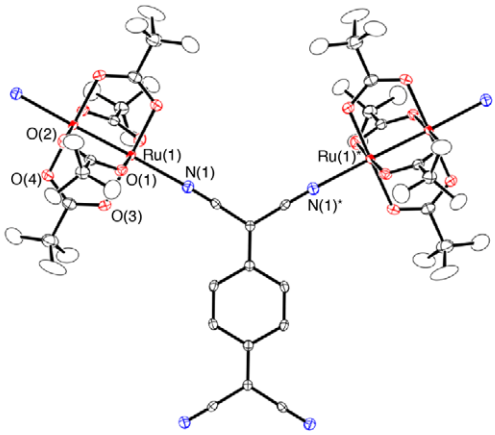
a)



b)

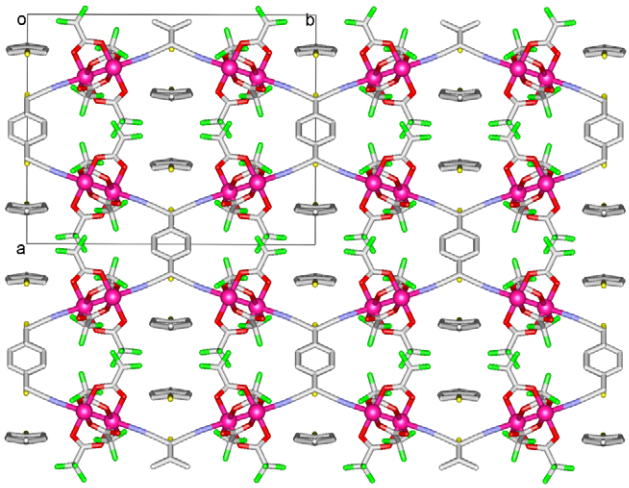


Fig. S1 ORTEP drawing (a) and a two-dimensional network (b) of [{$Ru_2(O_2CCF_3)$}$_4$TCNQ]·3(4-chlorotoluene) (**1c**). Hydrogen atoms and solvent molecules, three 4-chlorotoluene molecules, were omitted for clarity.

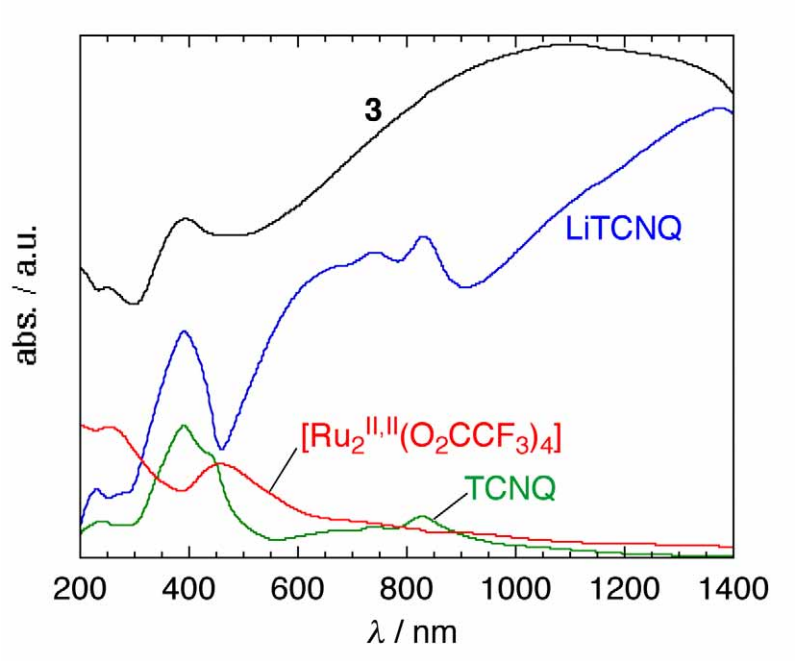


Fig. S2 A powder reflection spectrum of **3**, together with those of TCNQ, LiTCNQ, and $[Ru_2(O_2CCF_3)_4]$, in the UV-Vis range, where $BaSO_4$ was used for background.