Electronic Supporting Information (ESI)

Microwave-Assisted Synthesis, Crystal Structure and Properties of a disc-like heptanuclear cobalt (II) cluster [Co₇(immp)₆(CH₃O)₆]·2ClO₄ and a tetranuclear Heterometallic cubanic Cluster

[NaCo₃(L)₃(CH₃CN)₃(OH)]₂·CH₃CN

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Fig. S1 IR spectrum of different methods synthesis I. a: method A; b: method B; c: method C.
Scheme S1. The probable mechanism of the formation for ligand immp.

Fig. S2 Packing diagram of structure 2.
**Fig. S3** Space-filling plot of 2.

**Fig. S4** Plot of ac susceptibility shown as $\chi'$ vs $T$ and $\chi''$ vs $T$ for 1.

**Fig. S5** Plot of $\chi^{-1}$ vs $T$ for 2.
**Fig. S6** Plot of ac susceptibility shown as $\chi'$ vs $T$ and $\chi''$ vs $T$ for 2.

**Fig. S7** The structure of cluster a, non-hydrogen bonds hydrogen atoms omitted.