A novel 3-connected [3+3] topological net showing both rotaxane- and catenane-like motifs

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**Fig. S1** Ball-and-stick representation of [Zn(bib)2Zn] 26-membered loop in 1.
Fig. S2 Schematic view of the topological structure of the single net for 1.

Fig. S3 Ball-stick and schematic representations of the coexistence with both both polyrotaxane and polycatenane characters.
Fig. S4 TGA curve of compound 1.